



1

SEQUENCE LISTING

<110> Rubin, Donald H.
Organ, Edward L.
DuBois, Raymond N.

<120> Mammalian Genes Involved in Viral
Infection and Tumor Suppression

<130> 01123.0004/P

<150> 60/062,021

<151> 1997-10-10

<160> 127

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 925

<212> DNA

<213> Rattus norvegicus

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ggttgattgc tcttgaaagg ntttgagggtg naattcctcc gtnagtgtga ccgtagtcgg 180
atntgaagag ggattgttna gcagncataa tttcattccc tgnacacca gtaacnnttt 240
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ncggaggatt gcaccaattn ggcgggtgc ctctganatc tgtttctcat ccatgccggg 360
tcaccagac gaaagccgaa agntcggga gtccctaactn tagtccntga aagtcattcc 420
cagctgcgta attgggctgt gcagagtccc agctcggtaa atatttgccc cgtgactgag 480
ctggagagaa tgctcctttc ttggtcctgg gcagctcttg gcagctcaca tgcactgttt 540
acctatcctc ccacattccc ccctgaggaa tcatcgtgcc tcggttccct taagtcctct 600
caacagaaaa caaggcagag tggaaacgaag gaaagtgcgt ggccggttaga aagcctgtct 660
cgaatctgtc ccacgtgcct caggtagcgt tccaaacagc aaagattcta gtgaagaaaa 720
ataccgtccg gtcaattagt caggtggaca gagcaggacc cgggtgtctg gaagcctcgt 780
ccattcctct ggggaagggtg ggggggggcg tgtaatgcag ctctcaagaa gaagggtattt 840
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<210> 2

<211> 554

<212> DNA

<213> Rattus norvegicus

<400> 2

caagatngan ggggcggcgg ttcgnccaga gagcgggtag ggaaggggaa gcgcccggatg 60
agccnggggtg cgganagcca gaccccaggc gtgggaaggg gagagagata gagcggccgg 120
ttgggaagag gaggaccgtg gtnataaat aacagaaagc ccagagggac gtanccatcc 180
gggatggaga gaggtaggga atccagntgt aagtcceaaa ctgccaccac cttcatnaga 240
actgcttcgt gtaaggteac gcaccgggcc agctgtccng agtggcggtc ctggcgtggt 300
aagttagcta aagtnactgc aactccgnct gtgcagactg ntctgtaaatt ctctctgtcc 360
gccaaattct ccctcctatt aaacttttca cttcctttca cttagtattcc tnacttcttt 420
caaacggaag ctgtaactga gcctgccacc cnganacntt gtggttgcca tttttatgct 480
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<210> 3

<211> 891

<212> DNA

<213> Rattus norvegicus

<400> 3

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| ttngaaanaa | tttccgtnaa | ggtcngnaat | nggccccgga | aaaaatgngt | tcctccccac | 60 |
| cttcattggn | gcggatcctg | ccngggaggg | caatgggttta | acaaataatc | tttnggagnt | 120 |
| ntggtngggg | ggggagggac | nccacagan | tcattnggtg | gttngggngg | ngggcatcgt | 180 |
| tnngatatta | tcacattntg | ngaancatg | tnggggcttc | cttctngaca | ggtggtggtt | 240 |
| nnacangngg | atgtgtgctt | cttttttcag | cagtgggtga | cccggattct | aagaccctta | 300 |
| cngtaacaat | gccctntttt | cctaagccta | accagtcctt | tangaggant | gctcttgggn | 360 |
| acccatgctg | nntcacctag | ccttggnntca | catnttnnac | acaggaaaag | gcagcatgtc | 420 |
| ttntnggagc | tcagcttatt | cccttccent | cccatccagn | atctccctgg | gntggatgag | 480 |
| gtggatgacg | catcttcaaa | gcacccccacg | tntcatggga | tgtgcacagg | agcttcgttg | 540 |
| gaaatgtgtt | gcgcgaccag | gcttgtgtag | gaaacaacag | actactcgaa | attaaagtcn | 600 |
| taccttgacg | ggttctcaga | ggctttttacg | cattaataaa | catttgaatc | ntaagaaggg | 660 |
| agcacagcat | gtaatatntt | tcaaattatc | aggcnttgca | accttcatta | gtttctctta | 720 |
| cgcagctggg | ngtgggtggtg | tgtaccttta | atctcagcac | tgaggaggca | cngatatctc | 780 |
| catctctgtg | acttccagac | cggcntcgcc | agagcaagtt | ccaggccacc | cagatgagat | 840 |
| gctcacagag | gggacctttt | tntgatgacc | aacgnagnat | gcaagtaagg | a | 891 |

<210> 4

<211> 974

<212> DNA

<213> Rattus norvegicus

<400> 4

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| aaaanaanat | attccgnntc | tnntagcna | gaagtntntc | gagcnntccc | ccgtnttttt | 60 |
| aaaaaccnc | ggattccggn | nntcgggntt | taanngtttt | tttaanggcc | cnaagncccn | 120 |
| nttattgccg | ncntttcccc | cccgtnttg | cncoccttta | cttngagant | ngtgnntcna | 180 |
| agattttnaag | gttnttgccc | ccccggcttt | tnttccccctn | nttttccccn | nagnttttaa | 240 |
| accggtntgg | gttnncnntt | nnttgnancc | ncnattggg | gtttccgntt | accnggggtt | 300 |
| ttccccatgn | ccgttccctc | caatnttgna | cttcccnggt | cngggtcena | atnccnngna | 360 |
| acngntcnan | ccttattgac | aattaatttt | tccttgngna | ntctgncccc | cngnantttg | 420 |
| gggttcttgg | gngcagggcc | tttttttctt | tggnggcaan | cncataaatn | ttaccagntt | 480 |
| gattgctaag | gaagtancca | tgggtgngaa | cccccccttn | ttntctccca | gatggaaccc | 540 |
| aggattttgg | aactgcagag | gcttcagggt | cttgggaagc | ggaggcaggn | aaagattgga | 600 |
| gtgcactgtc | cttttgcaat | atgggggttg | cctgcctgct | ggctcntctc | ctgctntntc | 660 |
| agatggtgac | tgaggctact | tcngcaggac | tnggaataat | catgtccagg | tggctgcctt | 720 |
| tccgagcaga | aaggacaga | cgtgggggga | tgaagttgct | atcgtttntt | tttttttctg | 780 |
| cacagactgc | aaagtgtgca | gagggaggga | ggctgtgcaa | aaaaaaaaaa | aaaaaaaaaa | 840 |
| aaaaaaaaaa | ccgaggacgc | agaagttaga | ctgctgaccc | atgttggtgca | tgtgtgcccc | 900 |
| tggagggagg | ggaccttntt | taaagggttc | acgcggcacg | cantgggnaa | nngnncctnt | 960 |
| acgnnntccc | caga | | | | | 974 |

<210> 5

<211> 850

<212> DNA

<213> Rattus norvegicus

<400> 5

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| anttttccct | caagnaaant | ntggtttggg | caacttgaag | acgcttnnac | cnaaaaccct | 60 |
| tgnggagntt | ggngaccttn | ttaccgnaan | gagtgggaaa | cgttttccctc | cgggttnang | 120 |
| gttaggggga | cccgnnggaa | aatttttaaaa | ccnngngggc | tttttcgaat | taaggggaaa | 180 |
| ngcggtttng | gtnnntgaag | ggcggngngt | tggagtcnna | gtccagagtt | gatttccacc | 240 |
| cacaaatntg | ggaggtgncg | gggaatgntg | ncnttttctt | gngatgaggg | ntgccgtnc | 300 |
| ggantaacag | ngnttgcntt | gtntngcnaa | acgaagagtn | tcctgnttgg | aataggngtt | 360 |
| cngttcgang | ganccagatt | tangngntgg | agnaaggatt | nggcagataa | angcntgaga | 420 |
| natgnancnt | ggancaggtc | nggnncnagn | ntacagatga | tgnnccana | canganataa | 480 |
| ntncagatca | cagtcgtacc | cngnggctggg | ccatgaanag | ggcatcccca | gacnnacaca | 540 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ngccttnana | antgntcaga | gaaccancag | tggntanggg | ntgcccnnnn | naccagggaa | 600 |
| gacccggggc | gtgncggata | ttgacacanc | agatnncatt | tggggncggt | tcgaggggtn | 660 |
| atgntcnccg | agtacnagan | angatcntcc | aacccggaat | ncggtgctcc | ngtcgtccga | 720 |
| tgnaatgagt | cgnccggnaa | cctcatatcc | aagaaacnat | acagcagtgg | nntccgagtc | 780 |
| tcgtatantc | nttgcgggng | gaggctatnt | tcagaggnga | agattaccgt | tagcgggana | 840 |
| aagtngaana | | | | | | 850 |

<210> 6

<211> 531

<212> DNA

<213> Rattus norvegicus

<400> 6

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| ttngggcngg | gtctcctctg | ngtgngngtn | tcccnanag | gggggggtctc | acagtgtnng | 60 |
| ngtctnntgt | ctgtgtngtg | cccctgtccn | catctctcac | nccagggaga | gagatgtgag | 120 |
| ananacatca | gagatctctn | gnacagtgtt | tcacaagagt | ctatcnana | gagcacatct | 180 |
| gcccggggng | anacacaact | ctaaatgtgt | ctcanntgat | ctctctnttg | tgtctctnac | 240 |
| atatngggac | atgctctcag | agtatnggnt | ctcttgngcn | cttntgcaca | cacacacaca | 300 |
| cacacacaca | cacacacaca | cacncttctc | tctggcacag | ggntatggca | nagcacatnt | 360 |
| tnngagntca | nagctntata | tgagtgtgtg | gcgaaaggng | tnatnanann | gacnncccca | 420 |
| gcnnatatag | gggggngnnc | tctngggctc | tcttnggnna | tntgngggng | agtctgcnca | 480 |
| cacaggcgct | cnnacccanc | nnnttggggc | ccccagngg | tttttcccc | c | 531 |

<210> 7

<211> 572

<212> DNA

<213> Rattus norvegicus

<400> 7

| | | | | | | |
|-------------|------------|------------|------------|-------------|-------------|-----|
| ttttntgtg | gccctttaa | ctctgngtgn | ccgtntnccc | nagagggggg | gtctcacaag | 60 |
| gagacancgg | nnacacagag | gttttgngnn | tattgngagt | ctctgcgcac | nccananttt | 120 |
| aaccncgggg | ntcntgttt | tattttaaaa | aaaaagagtc | ncatgtntat | ttctctnatg | 180 |
| tgaaaatcnc | attcanagtt | ntgggggttc | ccntgaggag | anatagagtt | tcacactctt | 240 |
| ctctccgagg | ggtcntenca | tgtntctccc | caatgtgngn | ggnacacaca | tgngggcccn | 300 |
| aggggggtgng | ctctctctgc | ncagggcncc | ccccaanang | tagaganaca | ntgtgggtgtt | 360 |
| tcacaacaca | attcncgaga | nattntgttc | cncantggnn | gtctnagntc | ncatgttgtg | 420 |
| gngacangtt | agnncncccc | atnttncccc | ccctttcaca | ctgccccnag | agagagaaan | 480 |
| tctnggcccc | ctctanannt | ntttttaaat | cnccccnnac | cacagggtntt | cccagggtat | 540 |
| gngacntcnc | cnnccccnnc | aaagatntgc | nc | | | 572 |

<210> 8

<211> 906

<212> DNA

<213> Rattus norvegicus

<400> 8

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| tgggagtctc | tctcatatgg | cgenttcncc | aaaggggngt | ctctntccng | agncgcanac | 60 |
| gcgagaanac | tctgtnnant | ngtctcccc | cncncnaca | gngtganant | caaaacctct | 120 |
| agagcccccc | agaaancccc | tntctcaaan | aaagagaaag | agaaganaga | gnagnagaga | 180 |
| gananagaga | gagagagtgt | ggancntnt | cctcngancc | ccannnnan | ngtgnggcnc | 240 |
| actcncnngt | gnngngnacc | ccnggggatt | tnccgctgtc | cccttgngct | ctgtntanga | 300 |
| gananatatg | tntagtctct | ctntcgcccc | ctccgntgtc | acgtgtgcgg | ggcccnngag | 360 |
| acacagacac | ntctctcang | gggaacacat | anngactcnc | acntgtgttt | atattcnccc | 420 |
| ctcccnctca | cacanacaca | cacacagnag | atattnnngt | actctctctc | tgtcacaggg | 480 |
| gtacanattt | antctnggcc | anaccctctc | cngaagngng | ggcanngtaa | accccgcccc | 540 |
| ctctcngaga | angngagggc | gntttacntt | ccngtgggcg | tgtncgngcc | cccagagactc | 600 |
| cccttngnac | ccccctntna | accctctntt | tgaacncaac | ncacctccc | cnttttctcg | 660 |
| gggnnggncc | ngcncccnct | ctcncaaaaa | aaattnnaan | ttngtccctt | ncccncttnt | 720 |
| ttcnggnana | aaccgtgtcc | ggggggggan | nactcttttt | tgnccttaaa | atcaantttt | 780 |
| ttcccttttt | ccngggggacc | cccgnnttcc | tttttaaaaa | aaaanaaccc | tttctccctt | 840 |
| ttaaaagnac | ccnttttttc | naaaaccgtt | ccgnatttaa | ttcctaaatt | cccttccccn | 900 |

nccccg

906

<210> 9

<211> 914

<212> DNA

<213> Rattus norvegicus

<400> 9

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| gggatgngcc | ctcagatcaa | tacacccctc | ngggggngtc | tctctctatc | tcccncagna | 60 |
| gactcccate | tctntntntn | ccccaganc | tggngaacgg | ngtgtggnga | ncntntctg | 120 |
| ttctcnantc | tctaaaagng | cnaaaagcgc | ananacacgn | gcctctctat | anatctcacg | 180 |
| tgtcccnngn | netctcngac | ccctnntctg | tntgagagac | accctntctc | aaaatatagt | 240 |
| gtacacgngc | tttgnggctc | tccccttttc | tctccactnt | tgagnngaa | acgcggngtt | 300 |
| ntctctgaga | tgtaganagn | gtcccctnct | cnatatatgt | gttnccact | ccnnaggng | 360 |
| tctcataaaa | atcnctnttc | tcaacaccac | cncctcnacc | ccccncacga | gaacacntcn | 420 |
| ccaccnncan | gacacaaana | naaggngtnn | anaaccccan | aaaaactnng | ntntcngntt | 480 |
| tacacacaca | cacacncacn | ctcncncaca | ccccacnna | aatgggagaa | aaaacagaga | 540 |
| ggngtgggtg | ttngnntcaa | cacntnttta | cctctctgnt | gnnanttgag | aaaatatttc | 600 |
| tntncttacc | cctctcccct | ctctgtgtgt | ngannatate | ngntctagat | gtcctnacc | 660 |
| tccccaaacc | tttctcnggn | agagacntct | ctntnttttt | ccccncttc | catttgaaan | 720 |
| anangagaag | gnccaaaaag | gngggngtct | tctcggaat | ncnccctttt | ggccccccaa | 780 |
| cctgggtttt | tttccccctt | cctttttaatn | antttttcna | nacaaanctt | tnngngtttn | 840 |
| ggaaaangcc | tttnnctggn | nnttttttcc | cttccccctt | tnnangggnt | tccccccccc | 900 |
| ccngaatttt | tttt | | | | | 914 |

<210> 10

<211> 400

<212> DNA

<213> Rattus norvegicus

<400> 10

| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|-----|
| ttcctgggtg | cggctctctc | tgagatagtg | tatcccctat | aggggggggtc | tcacttttagc | 60 |
| acagtttatg | aatattatta | catatttcac | aagactttat | attgttataa | tatgcctcat | 120 |
| gtgagatata | tgtgattctg | tgggtgggtgt | ctcagagggg | gtttgggtta | ttggggataa | 180 |
| tagtttgccc | ctcgcggggg | ctatatattat | atatgtgaca | caatatatta | gagagatttt | 240 |
| tggttatata | tatttccctt | cgcgggggtg | gagatttatc | acaggggggag | agcttttccc | 300 |
| ttgttagcaa | aagtccttgg | tctcgtcccc | catctcccaa | aaaaaaaaaa | atgtgaaaaa | 360 |
| aaaaaaaaaa | agggccctc | ttgagtgatg | tccccttctt | | | 400 |

<210> 11

<211> 880

<212> DNA

<213> Rattus norvegicus

<400> 11

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|------------|------------|-------------|------------|------------|------------|-----|
| acccaatctt | nanggtggca | gtgnggnnga | tcttaacggt | tttnagaaa | aaaaantnct | 60 |
| tcgctencac | ccccagcct | ccntttctta | ncagcttttt | tatangaaa | aagatgataa | 120 |
| cgaaatttta | aaaaccgtcg | ttagaggaaa | tgaaggttca | gccgaccatt | acctganagt | 180 |
| aatgaaggtn | ttccggaggg | ttgccttcca | atcccagatg | gatttgagtt | tcaggatcaa | 240 |
| ttcagttacc | gntgaccatc | caccnncctc | cngtataatc | attngatgag | gatgaatggt | 300 |
| gagtgagtga | tgatgatgat | gatgatgatg | aagggatgag | aagnacacta | tgataacaag | 360 |
| tgtctcagtc | cacattaagg | tttgccctgna | aattagtgca | taagccatgg | gagacaaatt | 420 |
| cttttcnnac | acaattaata | gtntcttant | ccttcccctc | ttctctgccc | cattctgttt | 480 |
| tccaccacag | gtctgcagcg | ggctacagct | tccagtctcc | aagcaaatac | cagaactgga | 540 |
| ggagaaaatt | ccagtccagt | gagtcattggg | cagggggagg | ggtggggtaa | gggcagtggc | 600 |
| gctcattcct | nacatggtgt | cttctcttgc | ctagcctggg | atctgagggc | aagagaacct | 660 |
| gtaagcttga | tttgatttcc | actgctgact | ggagtcactg | ccaagggatt | tgggacttct | 720 |
| ccatctctct | ctctaacctg | aaatccttag | gattctatta | tttcaccgga | ccagagctgt | 780 |
| agcagagatg | agctccaagt | ttgaaatgag | aaaggggaaa | ttgagagcta | tgagctaggn | 840 |
| gcgaaagncc | ccacaaagnn | tttggaaggt | agaaaagncc | | | 880 |

<210> 12

<211> 909

<212> DNA

<213> Rattus norvegicus

<400> 12

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| cnggagnggg | cagggannna | ggnggggagcn | ngagaggaga | aggagaaggn | nnggnaggng | 60 |
| nngngagnaa | cgggcgggan | cnnnngacga | gagaangggg | aggggancga | agngcgnggg | 120 |
| nagacggtgc | nngggggggga | ggggcaggag | nggnagagag | gcangagngg | agngggggaca | 180 |
| agcnnaaanc | gaggaggnan | gangngangg | nngngngngc | gaaggcgcn | aagnnggtcg | 240 |
| gngagcggn | gnggnnaaac | tggggaacga | gacagacggc | cccnncggng | gcangngggga | 300 |
| gagnnncgcc | agngagagna | gncagnanca | gancangggg | ggggggggan | ncacnggcgg | 360 |
| gagggngcg | gacggnnngn | annggnnaga | ggcannnnnc | gccnanagng | ngaagngagg | 420 |
| cangagtgc | gcngagnag | acaggcccg | gcncggggg | cagacnnngg | ncaccaccga | 480 |
| gggtggngg | ggcncggaga | naagaccaga | ggnnngaggg | cganggcngg | ggtnggccg | 540 |
| ggccnccna | aaaaaanncc | gaaaaaaan | aagggcgcn | gcngggcngg | ggaggagcgc | 600 |
| ntnncgtang | tngantgacg | gaggccngna | atngggccgn | gccanncnag | ggcgngaggg | 660 |
| cccaagngcg | gnaggngnaa | gnanagancc | ngnnggtngg | gagnganagn | gcnnnggncc | 720 |
| nacccccngn | gttganggc | cccacgncgg | ngcaggccgn | nnaaagngag | tccccnaaaa | 780 |
| nntcgnggt | tnacancgnc | ccggggngcg | cgengngtcc | cgncacacng | gannncggag | 840 |
| anngcctnt | ntctncacan | ggngccanac | nngntgctat | gcaaaagggg | cgnacttcna | 900 |
| gaaaaagnc | | | | | | 909 |

<210> 13

<211> 927

<212> DNA

<213> Rattus norvegicus

<400> 13

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|------------|------------|------------|------------|-------------|-------------|-----|
| cctttattcg | gaggcaggga | nncttggtcc | gggaangtta | aacgtttttt | aaaagggggg | 60 |
| ncccnngggg | gggggnttnt | ccagggaant | aaaanggtgn | gttggggggg | aaaaatttat | 120 |
| tttnaaaaag | ggcgncnat | ataaangacn | ttcggggggg | tttgaanagg | gccggaancn | 180 |
| tcgacgggtt | tccggngggg | ganaaggana | agggnacgca | cgggatttct | tncccttttt | 240 |
| tngcaaattg | cngcaggana | ccaccgggtg | ggngnggttt | gttttccgtn | aagaaagcgg | 300 |
| ngtggaataa | acanggataa | acgggaagan | ggggttattt | nggttagnaa | ttgnttccag | 360 |
| ngnggccagg | aaattggcct | gtccaaaatt | cttttcccng | cttttaagac | aggcagggtat | 420 |
| tatttggcag | cagggtatta | cnataggnaa | gtaaataaca | atgggttaagt | gcctggcaca | 480 |
| ggccagggtg | agtagggcat | gtatggaatg | ttaaacatta | cccttcaccc | tgagaaanaa | 540 |
| aanacaagna | anaaaggctg | gtctcacata | tcccaaagct | ttatcttctt | aggtgccccca | 600 |
| tggtgaacgt | taagccaagc | ntatgantca | caagggacga | catgggcagg | ntaggggtaca | 660 |
| gaatcagtgn | tcagagactc | caggggcacc | cctgattccc | tttgctgtca | cacagacact | 720 |
| gctccaggga | caaccctccg | gatgtgagta | tatgacttcc | tgatgggtgac | gctgccgtga | 780 |
| tgggacactc | ntcgtggtag | cacacattcc | tcagtcagct | tctgagcctc | aggggtcccag | 840 |
| cagagcacag | tggaangac | tttcattctt | nttggncttt | cccagggggc | gtncccaaat | 900 |
| ggaagatttg | gcaagntaag | gaagntc | | | | 927 |

<210> 14

<211> 848

<212> DNA

<213> Rattus norvegicus

<400> 14

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ttttccaagt | aaancanggg | anttcggtan | aagaangttt | aaanaagngt | ccaggcancn | 60 |
| gaaattttcg | nggntttggt | taacgangca | accagggggg | ggtttcaang | ggtcttctaa | 120 |
| tnatttnaan | ggngtagtt | tctggtnngt | tcattccttn | aaaaaaaaac | aaaacaaaac | 180 |
| aaaccgnagc | ttctgcattg | gccaccngtt | gnggcaccaa | cccttnangc | attgcccttt | 240 |
| ccttcctgcc | gtgtcggngg | gcgctaagen | gcccttggtc | ccttccattt | ntngatcatt | 300 |
| ttccatgtcc | ttgcacttct | gcttccactt | cntgttggtg | gacgagctgt | atgntcagaa | 360 |
| antgaagtac | aaggccatca | gcgaggagct | ggaccacgct | ctcaacgata | tgacttccat | 420 |
| gtaaatgttc | atgcaccctg | cctgcttgca | ccctcacctt | catgcttggt | tgatgacctc | 480 |
| accgtggctc | ccccannann | aaaananatc | catgtctgca | ccttttggtg | gctttcttgc | 540 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ataacctagg | ataggttata | ttttccacgt | tgcactaaca | aggccacgcg | cattcggtcc | 600 |
| gtgaaaccac | ctcggcatcc | ttttatntca | tagaggcaaa | tntagcttgt | ttctgccgag | 660 |
| agatgacctg | gactccgaat | gggctctgag | tatntccttt | taaaacctta | aaccagantc | 720 |
| aagtaaagtt | aggaagccat | gaggcagtgg | tgcaggaagt | taggaagaaa | naccgggttg | 780 |
| ttggtttcct | gggnctgggg | tgagggacca | ttgatagacc | tttacgaaan | ganccgcang | 840 |
| atagaaaa | | | | | | 848 |

<210> 15

<211> 896

<212> DNA

<213> Rattus norvegicus

<400> 15

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| agagaaaaag | gaaanannga | aagaaagagg | agnaaaaana | aagaggnggn | aanaaagaan | 60 |
| agangnanaa | agaananant | nngagattac | gaantcgggg | agagnгааag | gaaacaaagn | 120 |
| nggnggnaaa | gaggnanttn | tttcaagggg | ccgnaacaaa | aagttgagng | angattccna | 180 |
| acaagggntn | nccacccaan | ctgntaaagg | gangatttgg | ncaaacanaa | accngtattg | 240 |
| gggagttaaa | aagagtcacc | aaatagggaa | aaaaagttng | ggggaggggn | aacnacnggg | 300 |
| taaaggttcc | aggaccagag | ngttcagnac | caagtttcag | tattcaggag | gacagagttc | 360 |
| aggatcnntt | tggaacattg | gggtttgggt | agcntggnaa | cacgaaccct | tttgttcata | 420 |
| aaaaggaagg | gaaaagaaag | ggngaagag | tnttcccaga | tgnattntga | gcagagaatg | 480 |
| cccgaccccc | cgaatacgta | gttccaaaat | gggattgnac | ctgtttcacc | tcaaatttca | 540 |
| ntcntccttc | tngtggacag | acgcagggat | ggggtcgggg | aaggggngaa | gctgggtgcgt | 600 |
| gttctgtggt | tgccggtgga | tgntctgcag | ctgtntaccc | caccgaaaac | gaatggatgg | 660 |
| gatgtcactc | ccaggcagta | gggggcgcac | gcgcattgtg | ttntagagag | anttccccag | 720 |
| cctccccngg | aannacaaca | cgttntcttc | ttcttaaggt | ggtggtgggg | ggggggggga | 780 |
| agacctattg | ctttccgaga | ggatcggacc | aaacagcaga | ttntgctcaa | ggcccttgaa | 840 |
| ccctgntatc | tcactaaaca | tctgagatac | tgacattaca | gatacggata | tcgtgg | 896 |

<210> 16

<211> 858

<212> DNA

<213> Rattus norvegicus

<400> 16

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|-----|
| gccaatcaag | ttncggttaa | atthttggaaa | ngngggcgaat | gcnnrtgtctt | gnngattttg | 60 |
| gagggnggaa | ngtnggtnaa | agagttttta | tgttcttggg | atcgcaanta | ttttcctggt | 120 |
| tcgcgncttg | tacattatga | gggttgataa | cngctgtttt | tngatttttg | ttaacanggg | 180 |
| ngggngcntt | tttnggntga | cctntagtn | ntcngngccg | ggcatttttg | ntaccttttt | 240 |
| atthtttngaa | gtncagggat | gttgtgtact | gggaatattc | cttagaagtg | accatgatth | 300 |
| tatatthttat | taaatatata | cttagattca | ntctttgcct | aagcctggat | gttggttggn | 360 |
| tttgthtttg | ttttgttggt | nggagagtt | tcattttccc | aagctggctt | tgaacattca | 420 |
| cttccacaca | aacatgtcca | cacacgggca | aaggtgtatg | cacagatatg | gacataacac | 480 |
| acacagagaa | gaatnacaaa | caaacaaaca | aaatattttn | gacagaaaca | antaaataca | 540 |
| tccagaagg | agaatattct | acaaggcatc | aaatctgttc | taaagaaaaa | gttataataa | 600 |
| agaaaaacat | tgaaaggcag | gtgaaggaga | ttgaaggcca | tagggggccac | aaaaagggtt | 660 |
| aaacagcaaa | gcaccaacgt | agatatccgg | aacgtgctaa | atatggcaca | cacaggatat | 720 |
| ccgggaacga | tgagtcagcc | agcggcacat | ataaccaacg | atgtaatctg | ttatgtaact | 780 |
| atgaatcatc | cctggcagag | tgccaccttt | gtgtgatttt | tgtataaata | tgccccctgag | 840 |
| accagaagcc | attgcctt | | | | | 858 |

<210> 17

<211> 551

<212> DNA

<213> Rattus norvegicus

<400> 17

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ttntctgtac | ccccttctca | aaaaaagtgg | ctggtgnctt | ttctcngaag | agaatcctca | 60 |
| ccnccncana | anaaatatct | ctctcccccc | cttggtgnnt | gtcncccnnc | ccaaaantgt | 120 |
| gngatctntc | tctctgtgca | cgaganatth | tagaggggga | tatccccggg | gtgtngccng | 180 |
| tgtctntcct | ctcgcgaata | tctttangag | nctctctctc | tcganccccc | agngtaggnn | 240 |

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|-----|
| gagngganaa | catttttntg | tggngggcccc | ccacaananc | acnaacaana | tatttttcgag | 300 |
| aancncatgn | ganaatcggg | ggggggggggg | ccngtggttna | cacnatancc | ngggngatna | 360 |
| nanagacacn | nnatatntct | gggntgtgna | aanataanac | aagancanac | atgngggagan | 420 |
| natgtgagan | tgtgcacacc | ctgttgtgac | atgtgagggtg | gggggctgat | gatncctncc | 480 |
| ttctacgtnn | tntcttctcc | tccncantga | tagacnccac | ctgctggagt | gnctagctan | 540 |
| ctgggggtcgg | t | | | | | 551 |

<210> 18

<211> 888

<212> DNA

<213> Rattus norvegicus

<400> 18

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gttaaatatg | aaaaagtggg | ggtgacaggg | ggtgataccc | tttgcgccgg | gctatggatt | 60 |
| tttggcaccg | ataagatttt | caggtgacat | ggaagggtgg | tggggatggg | ggaaagtttt | 120 |
| gaggggccaa | aaggataagg | aggatgattg | attggtttgg | gagcagtact | tggaaagagt | 180 |
| gtgtttgatc | ggtaaacaac | cacgtgtagt | gtgtttttgt | tgcagcagag | ataagtgaga | 240 |
| aaaagatttc | aggagatctt | gatttttttc | gggtcgagct | atgttggggg | atgtgagggt | 300 |
| acaattcaca | agatttggtc | acagggaggt | ctaggaggtg | gtcccattag | ccggtagggg | 360 |
| ggttttctca | ataaatgggt | tcagtcaggt | gtttgcctag | atctttcatt | agttcctccc | 420 |
| ttcaaagggg | ttttgaagga | gtgctttgtc | ctgtggagca | attgactcaa | tcaataaact | 480 |
| taagtaatct | cccggattac | tgttgatgcg | ttcccagaga | gggtcccccg | agttaccagt | 540 |
| gaatcacaat | ttcctaacca | tatgattttt | gttaatctca | ccacataaac | ccacaattct | 600 |
| cgcgtccttt | gtgatgggtt | caaagtctgg | aatatttttt | cctccatccc | tcctttcctt | 660 |
| cctcctttta | tccctccctt | ccttttttcc | tttcacagga | tctcattatg | cagcccagtc | 720 |
| aggccttaaa | cttgtgatcc | tcctgtctca | gcctcctagg | tgttaagatg | acccaaatgt | 780 |
| aaaccatgtc | cagttacttc | ctcctaatec | catcttcaga | tatcctttta | gaccaaatta | 840 |
| aatattaact | gaaagacccc | accagtaggt | ttggcaagct | agcaaaga | | 888 |

<210> 19

<211> 867

<212> DNA

<213> Rattus norvegicus

<400> 19

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|-----|
| ctttttctaa | atttttttaac | gggggaaatc | aaacggcaaa | aaagaggggg | gaccacctca | 60 |
| atcacccaca | gtggaaaatt | ggtgggtatc | aatcagggtg | tattaggggg | ggaggaatgt | 120 |
| tggggaacaa | aaaaaaaaatt | ttaaaaattt | ccaggggggt | tttgaaggca | ggtgatttaa | 180 |
| aaaccgcccc | tcagttaagg | gggtttttatt | tttttttaat | aaaaaataaa | attaggattc | 240 |
| tgggaatagaa | tttttaattc | agggatcctt | attttttaatg | tttccagggt | aaaagggaga | 300 |
| tattcttatac | aggtttctgg | aaaaagtttg | cttggtttcc | tttggcagga | gagagggtta | 360 |
| aaaaagactt | catttgaaact | ttttgatcat | tgtgtaaaac | tttttttttt | gaacaaaaca | 420 |
| ataaaatgta | aaaagatata | gatcttaggt | tttttaaaaag | acaaacatat | aaaatattaa | 480 |
| aacagattgt | ctgtcccatg | caaatgactg | actgaccttg | taacagctcc | acagagtgtg | 540 |
| taaaaacaaa | aaaaagcccc | ctgagagcct | tgagccatca | ggttaagtct | catttattaa | 600 |
| tattttcaag | gccacaggag | acactctgtt | cccttcattt | agggaggtgc | tgaggcagcc | 660 |
| atgttttccc | agcagtgggg | gttgggcaga | gccactccag | attggcttgg | aggggtgtgt | 720 |
| agctctcagt | ctgcccggac | ttggatgggt | tattttctta | aacgaaaaca | cctgcctgag | 780 |
| aaagagccct | tttcacgggg | tggccaagtc | ccagccccgc | ctgggagcca | aggtcaagtc | 840 |
| ttagcttagc | gttctaagga | cacagat | | | | 867 |

<210> 20

<211> 897

<212> DNA

<213> Rattus norvegicus

<400> 20

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|-----|
| aaaggggnanc | aaaaccentaa | nggggagggg | nggggaaatg | gccaaaantt | gggggttaaaa | 60 |
| aaagtttagga | tntggttgga | tccnaccac | aaggaatttg | ttnttaattt | tttaaaggna | 120 |
| aatttgggca | cttcnattgg | gaaggttaaa | acccaggcaa | gtgntaccgg | gntatgcaag | 180 |
| tgaaacntga | ttctggnggt | ggaggggaagg | atantganat | gtgagtgagt | gcagttgagt | 240 |

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| gaggacttgt | gagnacaggt | catgcccacc | aaagggagga | gcaaggggtgg | gcagtggtag | 300 |
| gtgggtgtgtg | gttcctttct | gggggntggg | cggggagaca | gatgagaacg | ntattggagg | 360 |
| acaggnacaa | gtgtactgaa | atgcaaatec | ctgtagatct | ggaaaaggtc | tggnttcagg | 420 |
| cttgatgctt | gggccggcaa | ctgtgnacct | tccctgnacg | ttcagccccc | ccacccttac | 480 |
| ggaagttttc | gtcactgaag | actagtggct | aatcagagtc | ttcaatggac | ctgccaatca | 540 |
| gaaaggaagg | cgggntnttc | cgggtgcnta | gggtgtaggat | tcgctcagta | gttaagcagt | 600 |
| cttaactggg | tctggctgct | gtgctntctg | tcctgccgtt | ggattntctg | aggcatgttc | 660 |
| aggcaagctc | caaagttgcg | acatgggtgag | cacaggggca | ggggggggcgg | gcggacgggc | 720 |
| aggggactga | gcagtgggag | ctgggtgtgg | gggtctttcc | cggggctgag | ttggaatccg | 780 |
| cggctacccg | tgaggtctta | gccactcact | agacccagcg | gcagtttctg | aataactttc | 840 |
| nttgtagggg | ttggnactcn | gnaaagactt | ccacnaaggn | cttggcaagt | agaaagg | 897 |

<210> 21

<211> 435

<212> DNA

<213> Rattus norvegicus

<400> 21

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|-----|
| gattccagag | agaggagtga | actggcagat | aaggcagtca | gcataatggc | ttagataacca | 60 |
| tgtgctttcg | ctcactatgc | acccatgaca | caagatcaca | gggtacaggc | ctggaccatg | 120 |
| gcagagtata | cactggtttg | gtaaatgaag | aggagagaca | gagtgggaag | tcggcttagt | 180 |
| ggatatggac | ttcaaatttg | atgaacaagc | aattcaaattg | agtatcgtgg | gcttgantgg | 240 |
| tatgaagacc | cgtttgcaaa | gcagtgggtca | taagagagaa | aagagagaga | gagagagaga | 300 |
| gagagagaga | gagagagnaa | gagagagagn | gtgtgtttgt | gttgtttgtg | ttgtttgttta | 360 |
| ttggtttnata | acaanatnta | cctttgggcn | ctttngaaag | actntncaca | aaggagcttg | 420 |
| ncaagctaga | aaggt | | | | | 435 |

<210> 22

<211> 894

<212> DNA

<213> Rattus norvegicus

<400> 22

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaaaaaaaaa | aaannataat | tttaattttt | ccccatttn | aagggaatn | ggaaattaaa | 60 |
| natnggtttt | nagcccaatg | gaaattaaaa | ttaagaaggt | tgttttccaa | aaacctttcc | 120 |
| ctagaggana | accggccnat | aggngggggn | agnatggaag | gattttccag | agaggaatca | 180 |
| gtttggngag | agaatttgat | aaggagttcc | ttggaaccaa | ccnggagggg | gttttggttt | 240 |
| nngggattna | tcangatgg | tgtccttggg | aagcataagg | ntggtttatt | attttggtta | 300 |
| aaggggatga | agtacctgt | gttgcaactg | gtagcccaat | gtcctgtcat | tgtgctttgg | 360 |
| atgtaggcag | ctttgaaggg | attnttcctg | agaggatctt | ccggatcaga | gtatatcgcc | 420 |
| ttttcttggt | gaggcccat | agtgggantc | cgcacttcac | catttctttt | ccgcccggcc | 480 |
| cagttcggtt | ntaaccacc | cgcgtggcca | cgatcccagg | gacatagcgg | gacaggcccc | 540 |
| gcagtgcggt | gacacacgtg | ggcacacccc | acctgtgcag | ccggtggctc | gcgntgaagg | 600 |
| acacgaggcg | cgacaatcgc | gcgcggcgcc | gaaggccaac | cgccgcgttc | atggtnttca | 660 |
| gaccaaagac | ccacaagnta | cgggttccgg | tttccgggac | ngaggccagc | ccggttcccc | 720 |
| cgcggntgcg | cagtgcaaan | tcggccttcc | ccgccggaag | tactcctggg | agcggtttcg | 780 |
| gcgcgtggca | cttttcggtc | cacctggagg | caacactggc | gcentttcct | gtttcagtct | 840 |
| ttgntaggct | ataagtgaaa | gacccacacn | gtaggttttg | caagctagcn | aaag | 894 |

<210> 23

<211> 594

<212> DNA

<213> Rattus norvegicus

<400> 23

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| ccattaatgg | ggnggggnaa | agggataggg | atttgggcn | gnnggttant | ggggaagtgg | 60 |
| gattttaagg | aattccccaa | aaatattgat | tcttccaaag | tattttcctt | catttcccaa | 120 |
| nagagtaatt | tcaaaagccc | cagntttgtg | gaatcanttt | ttgaanatat | gaaaaggccc | 180 |
| taatggtttc | ggcattatta | aggcccgtg | aggacactgn | tcaagttact | cttgggaaggc | 240 |
| gtttntggca | gaaacagaac | agccccgttg | gcacggacag | tgtccactgt | ttatctataa | 300 |
| atcttttcaa | gcagatcttg | cagccaacta | ggtacaagag | tcggatgggg | atggggggcg | 360 |

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| gggagtcaga | gaggtcggaa | caatgaggcg | gaaacccaaa | ntntgaaaca | cgccccacctg | 420 |
| aacaggacga | aaggggtggg | cttgggtccac | ccagaaggaa | acctcgaact | ccacntttca | 480 |
| aggtatccgc | tccgggttag | cagccccggc | caaacgcccc | tgctggcttc | taacccaacc | 540 |
| agctacgaaa | gcaggctnga | ccactagctg | ncctcgactt | gaaagttccc | acaa | 594 |

<210> 24

<211> 586

<212> DNA

<213> Rattus norvegicus

<400> 24

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| atccaatnat | tgggagtagg | acaggggatc | gggattngag | gccagttggg | ntagtgggat | 60 |
| gctgggaatc | ttaaggaatc | cccaanacat | atggattctt | ccaaagtatt | ttccatcaat | 120 |
| tccaaataga | tgtatttcaa | aagccccagc | tttgtggatc | agtttttgca | ntatatgaaa | 180 |
| aaggccttan | tgnttcggga | ttattaaggc | ccgctgagga | cactgttagg | gcgcntcaag | 240 |
| ttattcttgg | aagggtttct | ggcagaaaaca | gaacagcccc | gttggcacgg | acagtgtcca | 300 |
| ctgttttatct | ataaatcttt | tcaagcagat | cttgcagcca | actaggtaca | agagtcggat | 360 |
| ggggatgggg | ggcggggagt | cagagagggtc | ggaacaatga | ggcggaaacc | aaaantntga | 420 |
| aacacgcccc | cctgaacagg | angaaagggt | ggggcttggt | ccaccagaa | ggaaacctcg | 480 |
| aactccacnt | tcaaggtatc | cgctccgggt | tagcagcccc | ccaaacgccc | tgctggnttc | 540 |
| taccaacca | gctacgaaag | caggcngacc | actagctgac | ctcgac | | 586 |

<210> 25

<211> 909

<212> DNA

<213> Rattus norvegicus

<400> 25

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| gggggggtgn | aaattgagaa | gcccnccttt | cntctttggt | gtgaanacat | ttncntncn | 60 |
| gggggatccc | tnggttccgg | aagggccgcc | ttagtnttcc | ttttcctcca | cctatgaaag | 120 |
| gggnngggagc | cgattaaaag | aagggnggag | cagngaggga | agcggagctt | cgccccgttt | 180 |
| ccgnaccctt | aaccctgctt | gttcgggggg | ggagngtgcc | accnaccggg | gngnggtggc | 240 |
| acggagatnt | gagggggagg | gatggtttgc | cntggccgct | ngtgggtggg | cgggcaggcg | 300 |
| ccggcattcc | cggcaccttc | ngaagacnga | gccgggttca | gggacnnaca | ntccccgcca | 360 |
| agnnggacca | accgcttcgg | gtgggttccc | cggttgtntg | gtgcccaggc | cgnacgccgn | 420 |
| gacngaggga | gacccaagga | cntagantca | ccggtgagcg | ggccggcgcc | ggagagcgga | 480 |
| aagaggagcg | tagcacagcg | cagntcggcc | agacgttggt | cttntaccac | ccaccgagcg | 540 |
| tttaaaaaaa | anaaaaaaan | cccgcggcag | cggacttttt | ttgtagcgga | gccccggcgn | 600 |
| gtcacttgcc | ggaagtcccc | ccntcgtttt | ctgccaccgc | ccntcgttta | cctgggcaac | 660 |
| ggcgcggggg | cggagagtgg | ntgcgcccaa | gggcnttggt | ggggtggact | caggccccgg | 720 |
| ttcccgatcc | tngtagaatn | ttntagaggc | tttttcttta | tgcgaggtag | cagagggcgg | 780 |
| aagtcttgag | gtggagaggt | catgtcccag | agccgtaagc | cggggacgag | tgctntcagg | 840 |
| cnntgtgcan | ttgggatcct | nnngnccacc | ntgagggtcn | tcacaaanga | agcngncnag | 900 |
| taaaggagt | | | | | | 909 |

<210> 26

<211> 576

<212> DNA

<213> Rattus norvegicus

<400> 26

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| ggcaccgggg | taanangggg | gggagtngtc | ctgggnncct | tgaacgctgg | gggaggantg | 60 |
| gtngggggct | ccaagggggn | nggggaganc | tnaagntcnt | caanntagag | agggggaagc | 120 |
| tccccactct | acatctgttg | tcggagcacc | ccccaccaca | gagggcgctg | tcagtcatag | 180 |
| actagagacc | tcccctcaag | tgntctnata | cttccaatag | acgagccctc | ttgacgcctt | 240 |
| tttcagagaa | ttctctaatc | ctcgggtcac | ttccgcccc | ctgtcaagac | ttcacatatg | 300 |
| tcctccacgc | gaggggggtg | ctagaaccat | cataagaatc | tctctgtcct | cgttctttcc | 360 |
| tgtgataaaa | gccgcgggag | nttccttttg | ggcgtctaga | tctccgtgct | gagtgtctcg | 420 |
| ggagagcgcg | cgacatcgcg | tgtgaanngc | gacctgtctc | cgcgagagaat | gggagtgtct | 480 |
| gtgtgcagat | gtcatagtga | gaaaccaccg | ataagggtga | tagggtaaaa | gatacttaaa | 540 |
| gggctatgaa | gaaagtgggg | aagggaggag | gggaga | | | 576 |

<210> 27

<211> 853

<212> DNA

<213> Rattus norvegicus

<400> 27

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|-----|
| aacnccccctt | ncgggggggng | gggaaaaana | aaggggggtng | gnngaannta | aaccctagtt | 60 |
| taaaanggggn | tanangtntt | taangggcna | aaagnttggt | ttnantccca | ggnggggtccc | 120 |
| tccttttgaan | accengaaaa | attcatttnc | agagggggtg | gaagggggag | ccgaaaagaa | 180 |
| acccaacna | cttcgcaagt | aacaangggc | cnaagggagn | cagccgcacc | ttttttccnc | 240 |
| cccgcccaaa | ggccagccgc | attcaccatg | aacagataga | ngtaggaggc | aaacaattcc | 300 |
| agttaatntg | gcggttgatg | gcantttcgg | attccttggtg | gtattttctg | cgnatttgcg | 360 |
| aggagacgc | ggtgttcacg | atggcggctg | ggngaggcgc | ggaggcgacg | ctggagcggc | 420 |
| ggagcgacga | agttgcaaag | gntcagggtc | aaagcgnccg | gcgggggtcgg | aggggtcgag | 480 |
| caccggttcc | gttcaagcac | tggtgaagca | ggaaaccgcg | gngantctgg | gcgagaangt | 540 |
| ctggcgtagg | gaccagcggg | ccgcacttta | tagcgggatc | ntgcgtcagg | cgcgntccgg | 600 |
| ccaatcagcg | cgggtgggccg | cccagccccg | cttnttcctg | taggcgtggt | gccaagcca | 660 |
| gcagtgcgtg | ggcggggagg | agcctgtgtg | attgtgaggc | gantcttggg | gttatgagct | 720 |
| gntgcaagag | cgggtgcctgg | caacaagcgg | gacgtttntg | tggccccggg | cggacgtagt | 780 |
| tggaaaccagc | cgtactacag | aggcattctg | ggtcccagag | agtatcgata | aggttgattt | 840 |
| ttaagtccca | ccg | | | | | 853 |

<210> 28

<211> 825

<212> DNA

<213> Rattus norvegicus

<400> 28

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| ggnttncagg | ggnaccccc | cccncttnn | antttgtcca | cgnaanattn | nngccnnnna | 60 |
| agganggggn | ngggaagttt | nagggcaang | aaaagggaaa | agtttngttt | ggacaaacct | 120 |
| tgaaaggggn | tttatcgcaa | nacnccgggg | gggggttttt | ttgaaagaga | aggggaaaag | 180 |
| attcggaanc | ctgatttttt | tggnttgagt | naagnngggg | angggngnga | aaaattaaan | 240 |
| ggattccngn | gggggngact | agtantttag | gggggagaaa | agggttttat | aaggncccat | 300 |
| aaagttcagc | ggaaagccgg | ntccggggaa | gaccacccat | gngttttaat | tagagtgcaa | 360 |
| cgggttgaag | agcccaggaa | gcccaganac | tagggtgagt | caccgngaaa | ntaacagacc | 420 |
| ataaaaggaa | ggatgcagaa | cagaccaggg | tacnantcac | aggccacttg | gcaggaagag | 480 |
| atagccccc | gccccnga | ncagagcccc | aacctgccaa | tngggtagnt | ataccttatt | 540 |
| acttcatcat | gtgaatagcc | aatcatatgt | gaacatgtnt | atgtgcttcg | tttgaatcca | 600 |
| ccaatccng | taantatgat | ntgttctgna | cgccccnttn | tgttccccaa | tcntataaa | 660 |
| agccccatgc | tggagctgct | gggcgcgcaa | gtcntccgaa | gagactgtgt | gcccgcaggt | 720 |
| acctgtgttt | tccaataaac | cctcttgctg | attgcatccg | agtggactcg | gctcgggtcat | 780 |
| tgggcgcttg | ggactcctcc | tgagggaag | tcctctctgg | ggtct | | 825 |

<210> 29

<211> 861

<212> DNA

<213> Rattus norvegicus

<400> 29

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-----|
| anngaaacat | ncccnncnnn | ttnatccttt | nggaaaagg | cancccaaag | gnnnggaacg | 60 |
| gatngaanaa | ttctttcaaa | aagaganatc | gganggnnat | cgnnnnnggtt | ttcaagtccc | 120 |
| cccngagnan | naaaattgag | tcagtngggg | gnaaccgacg | nananaggaa | caggtttccc | 180 |
| gggagtcctt | gggtntcngt | tcgacccccg | gaaaccgaac | tnnccgnttt | ncctttggga | 240 |
| gnnggggattt | ntaaaggna | ncggnggtat | ttccattcgg | ntagttgttn | gttcaagggg | 300 |
| gntgccggac | ggacccccctt | tnagccagac | ngngnccta | tcgnaaaan | tggtggggtc | 360 |
| caaccgggta | agacagattt | ntcgccantg | ccagcagcca | ntggtaacag | gattagcaga | 420 |
| gagaggatatg | tagacngtgn | acagattaag | gaagtgggtg | cgtaagnacg | gacacattag | 480 |
| naggacagta | tgnggtatct | gcntcgggtt | gaagccagtt | accttnggat | aanganntgg | 540 |
| tagntttnga | tcccggcaga | caaaccaccg | ttggngagcg | tggntccttt | gnntgnaagc | 600 |
| agcagantan | gcgcagaaaa | aaaggatctc | gagaagatcc | tangatatnt | tggtcggggg | 660 |

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| cagacgctna | annggtntgg | natnntganc | ggntgaccat | agagcacagt | antgnngatt | 720 |
| gcagtcgcgc | ccnaggacga | naggagacca | ggggcccgang | ctgnagtaac | naatcaacta | 780 |
| ccctnacnag | atgnancaga | gagagagagn | accgtatant | nantgnaaga | gaggtcccgg | 840 |
| tttenagttc | ccagnacgga | a | | | | 861 |

<210> 30

<211> 149

<212> DNA

<213> Rattus norvegicus

<400> 30

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| attngaggag | atccgggttac | taaggatata | gaagaaaaaa | ataaatcgtg | tgcctgcctt | 60 |
| ttttttttta | attgcctgct | tctccccacc | cccaaattaa | gttgcttagc | aaggggggaaa | 120 |
| gaggcttttc | ctcccttcag | taggtcagc | | | | 149 |

<210> 31

<211> 857

<212> DNA

<213> Rattus norvegicus

<400> 31

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| gatctggtct | tgcccnggan | ganntcnntn | ccgggggggn | taaaaaagaa | ttgntggngn | 60 |
| tgacnagggg | gganaccccn | taccgngggg | cnancggaan | tnttggnac | cgnaaaaaat | 120 |
| ttccaggngn | acangaacgg | gtgcggnggg | antaggggga | aangtttgga | gtgngccaaa | 180 |
| acggaaaagn | agacgnntgt | anggggttggg | aaccagnacc | ntggaaagan | tnagttctn | 240 |
| atcngcaaca | accaccggag | gtaggggggt | ttttgtngca | gcacagatan | gcgcagaaaa | 300 |
| aaggatttca | ggagatcctt | tgatttttat | tcgggtanga | cgttcangtn | gnggggattg | 360 |
| ggagcggana | accatttnna | cacaggattn | tatgaactat | ggtcanttgc | tttgttgtcc | 420 |
| angtcgttgt | gggattgctg | tttttagtag | ctgcaaacgg | ttcgttttnt | gctatctttg | 480 |
| ttngataaaa | tcagccccgg | gcagangana | ttcgaaagtt | cccttttagga | gcttatttan | 540 |
| acgggctcaa | ngccaccggg | ttcgtttttt | taggcacggt | ctgcgcattt | tttttttttn | 600 |
| gnatntttgg | atcgcggttc | gtgggatctt | aaaaaccggt | ttctgtgatt | ggcacgcaag | 660 |
| aaanactcat | gagctgggtc | ctgttgtgtc | tctcaggacc | aatcaaanac | ccatttccaa | 720 |
| cggctttata | atgtctgggt | ctgtttgcac | aggaagcgaa | gtcacggctt | gcaccctga | 780 |
| agtctgggga | ggttcagagc | tgggaactgc | ccagaggaag | gggttcgggg | ctacagccat | 840 |
| caatcttcca | gttggttt | | | | | 857 |

<210> 32

<211> 1630

<212> DNA

<213> Rattus norvegicus

<400> 32

| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|------|
| ccccccccc | ccccaaaaan | aanaattacc | nttttaccat | tgngggttccc | ngtccntgat | 60 |
| aaatttttta | ccnnctttt | tccttaaaaa | ancgnatcct | gangggattt | ccgttnaatg | 120 |
| gnnttaannc | ttttngngaa | tgtnnacccc | aatnttcccc | tnaattttga | gtngngataat | 180 |
| tgcttanagg | catttggaag | tttaacggnc | acctgaggtt | gattgggtgn | tattnaacgg | 240 |
| acttngatnn | gaggaaggcc | cccaanattt | tgttccattc | cttntaagtt | tgggacttgg | 300 |
| aatcccgtt | gtttagatct | tgaccgtaat | caggagtcag | cgtagaggag | gccccggaag | 360 |
| gagggcccag | cgcggtattc | cccgcggcag | ggcggggacc | aacagagggc | cntcggggat | 420 |
| aggggagcgc | cgccccgcen | tcccggggaa | ggacacattg | cttggttagca | ggaagccagc | 480 |
| cagaccgga | ggaggccgct | ccagcggttg | tggtgcccgt | ccgggggctag | cctgatccgg | 540 |
| gcagggtgag | ttgagacgat | cgggtgagct | tgggcccggg | acgccagcgt | cttcagtcct | 600 |
| ggggattgtc | ccaggagggc | aaggagcttg | gaggagggag | gccgcacagc | taggggagtc | 660 |
| aggtctgagt | cccagagtgt | ctctaaagcc | ggggcggtga | gagtggcggc | ccgcccgggg | 720 |
| ccgcgcagcg | ngcagtctcc | cccgcgtggg | aagtggtaac | ttaacgcaca | gccacaggat | 780 |
| tcccggcctt | tagctgctgg | agggaggggt | gcttctccc | gaggagtctg | ttgtgaaact | 840 |
| cggttggagg | gcaccgtggg | tgccgggcaag | ggagagatgg | ggtcgccctg | aagaagtggg | 900 |
| gggctggagt | agaaagtgga | ctttgtgcaa | acctcacc | agagtagtta | gttaccaagg | 960 |
| ctggtttttt | tttttttttt | tttttgctca | gacacaagga | aaatttgact | caatgttaaa | 1020 |
| atatgtaatt | tggcaggaaa | acttttttcc | tagcctcctt | gctaataatag | ttggaacagg | 1080 |

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|------|
| gggctcccaa | gaggtataga | gtccccccatt | ttacaaaatg | tggttcagtg | ggactgtggc | 1140 |
| ccacccagtc | gtgtatccat | ggaagagtgg | cttttatgga | gaagttcatt | ttccttaacc | 1200 |
| ttaaaaactg | taaaggatct | tgtgcttgag | aatattgttg | gccagcttta | tagtcttcat | 1260 |
| ttataaaaact | atttagacta | gagtgttata | gattataggt | cttcaagttt | ccagtcacca | 1320 |
| gtccttggtt | tttttagtatg | gaaatcacca | gtaatggcaa | tataacatcc | ctgcttctgt | 1380 |
| ttcttagaag | gctaaattac | agtgtgttca | aactccgtgt | cattgcaaca | ggttaaacta | 1440 |
| actttatacg | taggacatca | gggtattgac | attctcatcc | taaagtcagt | ttgtctgttt | 1500 |
| ccagaggagg | aactgaagca | gtgggttcttt | aagtaactga | ctcagggctt | tcctgcctgg | 1560 |
| cgcgcctgcc | aggcatagtg | tagcattgta | ctgcactctt | tttgaccagt | ttccccaggt | 1620 |
| gaagagcctg | | | | | | 1630 |

<210> 33

<211> 883

<212> DNA

<213> Rattus norvegicus

<400> 33

| | | | | | | |
|-------------|------------|------------|-------------|-------------|-------------|-----|
| aaaaattgta | aggagttggg | ggnatcccc | ataattnaaa | nagggaaacaa | ncntaaagg | 60 |
| gagggnnngg | aanggccaan | attggnntaa | aaanagtang | tttggttgat | ccanacacaa | 120 |
| ggaatttggt | anaattttnn | taatggaaat | ngggcacttc | aattgggang | ataaaaacccc | 180 |
| aggaagtgat | accnggggta | tcaagtnaaa | cntgattctt | ggngnngagg | gaaaggatat | 240 |
| tgaatttgag | tgagtgcagg | tgaagtgaga | cttggggagna | caggtcatgc | ccacccaagg | 300 |
| gaggagcaag | ggntgggcag | tgtaggtggt | gnggtggtcc | ttcctggggg | gggcggggag | 360 |
| acagatgaga | acgttattgg | aggacaggca | caagtgttac | tgaaatgcaa | atccctgtag | 420 |
| atntggaaaa | gttctggntt | caggcttgat | gcttgggccg | gcaactgtgn | actttccctg | 480 |
| tacgttcagc | ccccccaccc | ttacggaagt | tntcgtcact | gagantagtg | gctaatacaga | 540 |
| gtcttcaatg | gacctgccaa | tcagaaagga | aggcgggctt | ttccgggtgc | ntaggtgtag | 600 |
| gattcgctca | gtagttaagc | agtcttaact | ggttntggct | gctgtgctct | ctgtcctgcc | 660 |
| gttggaattnt | ntgaggcatg | ttcaggcaag | ctccaaagtt | gcgacatggt | gagcacaggg | 720 |
| gcaggggggg | cgggcggacg | ggcaggggac | tgagcagtgg | gagctggtgt | ggtgggtcct | 780 |
| tcccggggct | gagttggaat | ccgcggctac | ccgtgaggtc | ttagccactc | actagaccca | 840 |
| gcggcagttt | ctgaataact | ttccttgtag | gggctgcaac | tct | | 883 |

<210> 34

<211> 913

<212> DNA

<213> Rattus norvegicus

<400> 34

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| ttccccccna | gaaaaatatt | tttngggacc | canaaaaaan | ggtcccnggn | cctgttttct | 60 |
| tccncccgna | aanaacttcc | ntttcentgg | ggggnnttaa | naaaagaana | tttcattggn | 120 |
| ggttttntcc | naggggggga | gaccccnttn | nccgcggggc | tttcgnaatt | ttttggtcca | 180 |
| ccngtnaaag | attttcccat | ggcgcaccat | gtacgggttg | cgaggngtat | taggcggnaa | 240 |
| cggtttttna | gtgggcctaa | tacggnanat | aggaggacga | tttgtnttgg | tttgtngagc | 300 |
| cagtaccttn | gnaaagagtt | gtagttttga | tccggcaacc | aaccacngtt | gtagcgnngt | 360 |
| tttttggtga | agcagcanta | acgcgcagaa | aaaaggatnt | caggagatcc | tttgattttt | 420 |
| cttcgggttc | ngacgttatg | ttgtgtggat | tgtgagcgga | taacaatttc | acacagattc | 480 |
| cgatngtagt | ccaatttggt | aaagacagga | tatntttccc | ttcaaagaaa | acagaaaaat | 540 |
| acagaaacgt | taattttcaa | atctcnaatc | tttcnttctc | tcttcnntca | ttcattcntt | 600 |
| cnttctttct | tctttctttc | tntctttctn | nagaggaggc | atgctagggg | aacagtagct | 660 |
| catttttaaaa | tctggcacct | ggaattaatt | tagggacaaa | acacctttat | gcaaaaaaaa | 720 |
| gtttatgttt | ttccatggaa | cacagtaaaa | tcaaaattaa | aagaatataa | caaaggcttt | 780 |
| ggtgatttgg | taggattttt | tttttctctg | aggggaaaac | agatgacttg | gaaagtgtta | 840 |
| ggaacatatc | aagccccagg | gaaagaaaaa | cgttttgattg | gtattaatta | aaacactgct | 900 |
| aatatattct | aat | | | | | 913 |

<210> 35

<211> 320

<212> DNA

<213> Rattus norvegicus

<400> 35

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| tatgcaccca | tgacacaaga | tcacagaagt | acaggcctgg | accatggcag | agtatacact | 60 |
| ggttgggtaa | atgaagagga | gagacagagt | gggaagtcgg | cttagtggat | atggacttca | 120 |
| aatttgatga | acaagcaatt | caaatgagta | tcgtgggctt | gactgggtatg | aagacccggt | 180 |
| tgcaaagcag | tgntcataag | agagaaaaga | gagagagaga | gagagagaga | gagagagaga | 240 |
| gagaaagaga | gagagtgtgt | gttgttggtg | ttgttggtgt | tgtttattgg | tttataacaa | 300 |
| gatntacntt | tggttaacttt | | | | | 320 |

<210> 36

<211> 389

<212> DNA

<213> Rattus norvegicus

<400> 36

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gggggggngc | naaaagggtc | tttcttttna | naaaaatcnn | gganggaggc | cncnanaacgg | 60 |
| ctnttanann | tnttcngggg | gtncctcncc | gntgtgggga | atganatntc | gntctcgaca | 120 |
| tcaggggatt | ggagattntc | tgngctcncc | nctcacnacc | cagaagaagc | gcacagagan | 180 |
| cagagtanca | catcatacac | acctnttcag | ctacagagcg | antnctctan | aaggggactc | 240 |
| ggggganaac | acaaccctcc | tcctcttctg | actgngagng | ccgcntgtag | gntctgtcta | 300 |
| cccancaagn | cttgtgcagn | ntgngaacct | ctctntgggg | tagagtgtgt | tgngggagca | 360 |
| gggcgtantg | ttccaggngt | agnctttca | | | | 389 |

<210> 37

<211> 882

<212> DNA

<213> Rattus norvegicus

<400> 37

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| agnaacgcgg | ncggngggnnc | tcncccnegc | gagcnggncc | ncccccnnngn | ncccagaana | 60 |
| gnagcgctcg | gngannnccc | acngnagac | nnnggctgcc | ccncgngncc | anggcnttnn | 120 |
| ncnncccccc | cgnateccgn | ncnncccccc | ctccctnggg | gngcgggggt | ccngnggccg | 180 |
| ngnggatacc | nggcganncn | ttgtgcccc | gcnngggggg | naggaccccc | ggcaccggcc | 240 |
| cngaccana | ncagnngctt | ngtggggggc | ccccccgcca | nagaacgaat | tnccgcnccg | 300 |
| gccgcggcca | tcggaacnnc | cctagcagng | cgtcntgcta | ggcnggnnna | cgggnatccg | 360 |
| caancccncc | cttngtaccg | ggacagccgn | gggnccgtat | gggctgngcg | ntnggccgta | 420 |
| gccanntncc | tttngaaang | acncggnagc | tnttcatccg | cctcacaac | cnnggggnnc | 480 |
| gngggggctn | tntcntgngc | cgcccgcgc | gtgngcgcan | aaaaaaaaaa | aanncgcccn | 540 |
| tcnccccctc | ttttggccng | ggtnccccgc | ncaccccggt | ccgagtnccn | nnccccccac | 600 |
| aacctcacac | cgatcccngt | gggttcccn | ngggagtcgc | ncngncnnag | cnggnttctc | 660 |
| cccatnnccg | gnggcttnag | cgngccnnnn | caengtttgt | nnngnntgc | ctcccccttc | 720 |
| tccttgaggc | aaaagcccgn | acngtntctg | tggaccacnn | tgctgaggng | ctggggcccn | 780 |
| cgntctctct | ctctctcnct | ctctctctct | ctctatctct | ctttctctct | ctggggcccc | 840 |
| tccttgntg | nngccanaag | nnngcnnacc | cgtaaagtaa | gt | | 882 |

<210> 38

<211> 975

<212> DNA

<213> Rattus norvegicus

<400> 38

| | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|-----|
| aatttngnca | ataangggcc | ttcccctgag | tgnggggganc | ncnctgttct | anaagggtacg | 60 |
| tttagcgngg | ttctcnagtt | natggtaacc | nagtacttaa | ttggcncnct | tgataaatgc | 120 |
| tngatcctna | naatttcaac | aaccgcagga | ccatttttga | acttggcggn | ngtttaccct | 180 |
| tnatgnnctt | tcennaaaat | ggcttccctt | gncatcnaat | agtgtgtccc | ctaacccttn | 240 |
| ggttccggag | gatgcatnng | tgngtgtgng | tttgnccctg | agcatgcngt | tcctgnacgg | 300 |
| gancaagntt | ntcaatgttc | cntcacncca | tacttnggct | tgggggtacaa | nttgatatatc | 360 |
| ttcgggatta | tatnagttta | tgtctgnttt | tcataaaatc | acttgtggat | ttggctttaa | 420 |
| ngttaggaca | acttnccaca | gtttcttgga | tctccntcaa | catgttaacg | ccattttgtt | 480 |
| cttgataact | aaagtgcacat | gtcnttntng | acactaacia | tcacaaatta | ggagtaccaa | 540 |
| tcaactttga | gaaaatttaa | aagatgcccc | atctcttgta | tcagcaagta | ttcagccagg | 600 |
| atttaattct | ttatgtaaaa | attagcaagc | atttctatnt | cattcacgtg | caaattttct | 660 |

| | | | | | | |
|-------------|------------|-------------|------------|-------------|-------------|-----|
| ttgattgtta | attaagattg | aagtgatatg | tatggcccaa | ataagtctca | ctttaaaaaa | 720 |
| tatttccttta | tgaattatta | tccatgaatg | tttgatctgt | atagctattt | tatataagta | 780 |
| tatgcaagga | ttgctaaaac | aattttttgag | tgaaaaaaga | tcctaggttag | aaaatgttta | 840 |
| agactaccta | taccgtcatt | aaaaactcct | caccagcatt | tactatgggt | ggacttttcag | 900 |
| agatctcaat | caactctttc | ccacccagtc | tactgaaagn | ttccacctgt | agcggcccaa | 960 |
| gcaaactgag | atntt | | | | | 975 |

<210> 39

<211> 850

<212> DNA

<213> Rattus norvegicus

<400> 39

| | | | | | | |
|------------|-------------|-------------|-------------|------------|-------------|-----|
| ggggaaaccc | acggtnaagg | gnngganaac | naggtanctn | tttctccggg | ttccaanaat | 60 |
| ngaangcctt | ccngagggcc | ngaaaancat | tncttcngga | gccgttcaag | ccagnagggtg | 120 |
| ggtttcaaac | aatgcttaag | ttgtggggag | aacnagncag | tccgttccng | accngtitta | 180 |
| tcntaaagga | gacgngggtt | aaagggttagg | gggttngaca | gtcctgctgg | tgttcaagga | 240 |
| ggaggagaca | agttgncatc | caggngngca | ggaanacctg | ttaaattcct | gaccnaccgg | 300 |
| atgnttggag | agcnaaggcg | gattcttccg | gcagtggcca | gatttcaacc | caggtcccgc | 360 |
| ccngcttttc | ttgggttaggc | aagcaggcct | tagtccngga | ggacgcccct | tgggtggccag | 420 |
| ggtatcacgg | ccccctnngg | gtttccattt | gcagtttgta | ttggaccatg | gatcactgct | 480 |
| tccttntgcc | ggaagttcca | gattccaaac | tgtgngantc | ccatntgcaa | ctcccatggt | 540 |
| tgcgntggg | actttttnta | atatcntggg | acccgcttcc | catttcccca | cccccntgnt | 600 |
| cccttcggga | ggaatcacccg | cccagtgtgt | cacttcctgt | aggnacttcc | aaggntagat | 660 |
| gagtgagtgg | caggcctcac | nttggccccag | ttantcagtg | cccacagagt | agcttttttg | 720 |
| agacgntagt | aagggtcttag | gggaaggaat | gtagtcgata | cttctccttg | gtggccctca | 780 |
| gcactgtgag | tagaccccac | acatcagggc | tgtgtcggtta | ggatctcttg | gaggggttgaa | 840 |
| agtttcgagg | | | | | | 850 |

<210> 40

<211> 889

<212> DNA

<213> Rattus norvegicus

<400> 40

| | | | | | | |
|------------|-------------|------------|------------|-------------|-------------|-----|
| ggggtttcca | aaaatttggg | gntttggana | aaccttcggg | gaataaaaaca | acngnnnaaa | 60 |
| attaaggggg | gccgggggaa | aaaggagatt | nattaaancn | ccacccgaat | tnaaacnccc | 120 |
| nccgggaccg | naaccgtttt | tggccnaaan | ncgagaagtg | ccttccnggc | aaagtagggg | 180 |
| accaaaggtn | gggggagaga | attgggggtt | gtncagngtt | ccggttcnac | ggaaggagcc | 240 |
| ggttggttgg | attgtttcca | aggagnngt | ttgngaccgg | agcacctcng | gggngaccat | 300 |
| ggggnttgcc | tgttagagac | cngcngatg | ttttgggttc | gnattcgggg | agggatttcg | 360 |
| ggggcctcag | acnggggagg | agtcccntgc | gttcccnatg | ggaccgggtg | tcgggcgggt | 420 |
| gcagtttcgc | tgctgtcctt | tggcaatgng | cntgggnatt | ngtgggcaga | ngagattccc | 480 |
| cngccccgc | natttcccn | gttccagttc | ntaggnacca | gaggttttcc | gcagtgtgat | 540 |
| tcaggagant | agantntagc | gtctgtnttn | tntgcgtttt | ccccttcata | attctcagtt | 600 |
| attttttagg | agaaaagggtg | cgtggaaaca | gagcgtccct | gttccgtgct | gtttctcnta | 660 |
| gcccaaaata | cagattttaat | tctgaagcca | tcgaccccca | tatccacttc | ccgccctctc | 720 |
| ataaacgtgt | aatatggctt | gctttttcct | tgtaacgttt | catccaacca | tagtggttagc | 780 |
| ggccacctgg | catcttgagg | tgggttgcca | atgagtgaat | gaatgagtga | gtgaatgaat | 840 |
| gaatgaatga | atgaatgaag | caagcttcag | ggagattttc | agagaagtg | | 889 |

<210> 41

<211> 929

<212> DNA

<213> Rattus norvegicus

<400> 41

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aatgcccntn | aggggnnttt | ccccgnattt | naaaatgggn | tncnngnttc | caaagtttcc | 60 |
| taaaaatttn | cantttccgt | ttttaccnng | tttatgggtt | ncagcctact | cctgttcgan | 120 |
| ttccaaatcg | gtttaantgg | ncccnccgaa | ncntntnttn | tttggcagaa | ggtgaanttc | 180 |
| nttggggccc | ttgtttaagg | gttttnagcc | ttaaattgnt | tgntnagnnt | ctccntaatt | 240 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agttcattcc | tttgaccatc | ttttgnccct | ccatcttgta | aacanttaag | tctattgcat | 300 |
| tccactttnc | tntcagttnc | cgtttnaccc | tcctnagcag | aacccgnttc | tcagctntgg | 360 |
| atggttccaa | anggtttccc | aacctatgct | caataccaca | ggcagcttgc | aggagggaga | 420 |
| antggtatgt | atttaacagc | attttgaccc | aaacttttag | gagcagagag | gactttaccc | 480 |
| aggacaggaa | ggcaaaagac | ttgaatctta | aacaaaggat | taagaacagg | atgtcatctg | 540 |
| tgagcctgtc | acagtggggt | tgcagagcag | gagaacacag | acaggattag | ctataaagtt | 600 |
| gttacattag | ttattntatt | ggagcataca | atacttaa | agttctaggg | caagagaaat | 660 |
| gaacagaaat | gaccttataa | gagccagagc | tgtagccaca | gctttctttg | tgcttagttt | 720 |
| gctagtccac | tctttccagg | gcagtctggg | ggattacacc | aaattgctta | gaaaatgcta | 780 |
| gctctactgt | ccctgtctat | tgtcagcttt | gcaatgtgca | tagtgacagg | agttgcctgg | 840 |
| gaagcttggg | gcttatgttt | tgcagatcca | ttgtaattaa | aaaagaattg | taaggagatg | 900 |
| gaggcacggg | gtgagggtga | gggtgagtg | | | | 929 |

<210> 42

<211> 943

<212> DNA

<213> Rattus norvegicus

<400> 42

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| ttggaaaccc | caacctggaa | aangngtntt | nccgggaaat | tcaacctgcg | ggcnaatggg | 60 |
| gtaaaagggc | ctaccttggc | ttngaaggga | atntcctgaa | ggnnnaatcc | caannttgtg | 120 |
| natcccaatt | aaggntnaac | nggtttaatt | tgtnttcnc | ntaccnaccn | ggtttnccgt | 180 |
| tatactaaag | ggctaacaat | taaatgctca | naagggaccc | ccaatcctng | gcnagaactt | 240 |
| gggttaaggn | ttccattagg | atltgccatc | ctntaccgtg | atcctgaaca | tntnttgaac | 300 |
| tgntttgcca | aggaacngaa | ggttttncct | naagntagca | cacagcagng | accaaggatt | 360 |
| ggaacccagc | nagtgccttg | aggtaaaaga | tcacttcctt | ntcccttagt | caggancntt | 420 |
| agggagtggg | ggcatcaccc | acacattccc | cagtttgnac | gtaggtttca | gccagcaanc | 480 |
| cgtccactaa | agctgcctcc | aattcaaact | ggattgagtg | acaagtggct | tgggtgtctc | 540 |
| tcaaagattt | ataggtggca | atggccactc | ctctgtgtaa | ttaccctnta | tgcacgtctt | 600 |
| tttnttctct | cccactccat | ccccacccc | tctttgtttc | ttntccntt | cctntccctc | 660 |
| ctgttgactt | tttctctccc | tgcaaacagt | tccaggcacc | gnttagcatn | tgccactctg | 720 |
| gctntagaaa | gctttgcttc | ccctctgctc | cctggctggc | tggaaactcag | cctccggtgt | 780 |
| gggcagactg | gctcatcctc | tgtgtttctc | tgagtgtgga | ctgctgcctt | ccacacagac | 840 |
| tctctgaagt | caaggagccg | caccagcact | tcagttgtgg | gccataatca | agncangact | 900 |
| gaaagttgcc | acctgtagng | gccgcaagca | aactgagatn | ttg | | 943 |

<210> 43

<211> 867

<212> DNA

<213> Rattus norvegicus

<400> 43

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aggaaacct | tttaaaaaaa | aggggggggg | gggggggggn | ntagnggcaa | aaaagatgan | 60 |
| accctcaagn | cggggggggt | taaanaagga | atcggttcg | ggctttgnac | aaataaagga | 120 |
| gttttgngng | nattttcccc | ntggtcgttt | tntgnacgat | ccacgggtga | ccgacgacgn | 180 |
| acggaccgac | aaccaanacg | taaaggggaa | ttgtggaggg | gttggaagtt | tagatgcccc | 240 |
| gacccaggac | gtgcggccan | cttccggaga | cccaccttcc | ttgtnggccg | ggnccggcgg | 300 |
| cagcgnagcc | atttccaccg | gatccctata | gcnggccagc | ctagcagcgn | gaacaccagc | 360 |
| gggaagtga | ntnggacctc | ggagagcgcc | cgcccttccg | gcggaagtnc | taattccaaa | 420 |
| gcggcccgcg | gcngagtctc | ccatacaggt | tggttccgtc | tcggagtgc | gtggcttgaa | 480 |
| ggacggtctt | cgcgcgagaa | gagtaccctg | cctttcaggt | gcgggagtta | cntcagcctg | 540 |
| ctgcacaccc | ggctgtgcgc | antcttctgg | tgtggccggg | acggttcacc | cagaggagtc | 600 |
| tctgtagtcc | ggagcaagat | gtcgggttaa | tctggcagga | aatgccttc | tatgctcatn | 660 |
| tatatattcc | tgcttccctc | agcttgcttt | cgacttagta | aggtaacatt | tcagagcggt | 720 |
| gcacttagta | ctttttggca | ctgtgctgta | taaatataaa | tgttccacac | ttaacatctt | 780 |
| agatgttata | tctaaagata | tgcattctta | aacttcgaaa | gcgcataccc | taaaatttca | 840 |
| tatttttgca | tacattggtc | agctgtg | | | | 867 |

<210> 44

<211> 303

<212> DNA

<213> Rattus norvegicus

<400> 44

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggaaatgatt | agtccaagaa | atatttgagc | agaagggagt | tagggttttc | aaattaggaa | 60 |
| agtggaatcc | acagagttcc | cttgacagag | aatataaaaa | ggactctggg | gtgtcagaat | 120 |
| ggtgggcatt | aacctgatct | tccacttgag | ggtaagggaa | atgattagtc | caagaaatat | 180 |
| ttgagcagaa | gggagttagg | gttttcaa | taggaaagt | gaatccacag | agttcccttg | 240 |
| acagagaata | taaaaaggac | tctgggggtg | cagaatgggt | ggcattaacc | tgatcttcca | 300 |
| ctt | | | | | | 303 |

<210> 45

<211> 840

<212> DNA

<213> Rattus norvegicus

<400> 45

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| aaaccggnng | aanaaaaaan | gaaanngang | gcnnnaaaaa | agttnnngaca | gaaaaaactt | 60 |
| tnggaaaaaa | gganggggan | aaggcaggng | nccnactnaa | aanggncttt | tcnaagnngn | 120 |
| anagagntgg | naatnagnaa | naggacattc | ttinnaacctc | cnangngngn | nggaannaat | 180 |
| ngggattgag | cngccaccat | tagggangaa | gttngaattn | nggggcccgn | gngagttaaa | 240 |
| angattcccn | ggttttttta | aacagagaa | acctncagg | acagatnaac | ccgagattgg | 300 |
| ttccctngaa | aattnnngan | aaagataaan | gtaggagcat | tcaaagtag | anggtaaaa | 360 |
| taatgggaga | catagacacc | aaaaaaagcc | agttcagtgg | gccccgaagg | ngcattaagg | 420 |
| gaggaccagg | aaacggcagc | anagccacng | gcagccgcct | gccccnacac | cagtnattcc | 480 |
| cgcacntaga | tccaggcgnt | gggggcccgg | cggggcgccg | ntgngcagng | aagntnnngc | 540 |
| gcaacaantt | tgcntagacc | ggntggaacc | ggttagaacc | ggccgcgccg | gaccggccgc | 600 |
| ccgttccgga | ttntgcgttc | acaaagggag | gcgggactca | cgacntngt | atcnttgngg | 660 |
| tcccaacccc | ggcccccna | cccnaccccc | nttgccccg | tggcattcgc | gttctttccg | 720 |
| ccgtctccct | cgcgggccgn | ttntctgcgc | ctggtgatcc | tttcgccatg | gtcctntgga | 780 |
| gaaagaaaaa | atctttaatt | tnctagggac | gtccttttcc | tgtagtcgta | attgtagaaa | 840 |

<210> 46

<211> 893

<212> DNA

<213> Rattus norvegicus

<400> 46

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| gagaaggann | aggnggggng | agngaagana | gaggagggaa | gaaangaagg | tggaganaag | 60 |
| tggannaaaa | agaggggagan | ggagggagaa | ntaaaganag | ganaagagng | gggaggaggg | 120 |
| gnagnatagg | agaggaaaga | aagganggan | agaagagaaa | agaanganga | gagaaaggaa | 180 |
| agaggaaaga | aagaggggag | aagaggaaga | aanagaggag | gggangagag | ggaggataag | 240 |
| agaggaaaga | gggaganagg | nttgaaaagg | gaaagagaag | gagaaaggna | gnaggngngg | 300 |
| aagagaggna | agggagaggg | gganaanggt | aagggggnaa | agaangagaa | gtatnggggg | 360 |
| aaaggaggag | angaaagaag | aaagaganga | ggaggagagg | gagagtgagg | aataaagggg | 420 |
| agggaaaagg | angagaaaga | gagagagggg | gagggaagaa | nagagaagga | tagnggggtg | 480 |
| gagaaggaga | aaggagagaa | ggagaaggng | agaggagaa | tgaagaagga | gggagtaaga | 540 |
| aaggantgag | naggaaagga | ganagagagg | tagagagaaa | anaaagaggg | aaanggaggg | 600 |
| gaggagggng | nanaaggaat | agaggngnga | aanangagag | aggggaaang | gggaaggaaa | 660 |
| ggaggaaaaa | aagnagagaa | gaagagna | gggaaggang | nagtagnaaa | agaaaagnag | 720 |
| aggggagagg | gggangangg | ggganacggg | ggggaanaga | aaaagtgaag | gaggccccc | 780 |
| nacccccccc | ccccacacac | acacacagcc | ttttcgccgg | cggaggtgca | ggttggtcca | 840 |
| ggagcctgtg | gtcaatccag | tcagtagtgg | gcgaggtgta | acatctgtgt | ccg | 893 |

<210> 47

<211> 789

<212> DNA

<213> Rattus norvegicus

<400> 47

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| taaaanannng | gnngannanc | tnnaaaaaan | tntcttngga | attnncagga | nggaggntaa | 60 |
| tngggcgggc | ancatcaatg | gtanaaattt | gggggggngg | annaaaatca | tnaanncaac | 120 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cgtttccana | gncaaccatt | ctggngncc | caaggttnga | ngagntccgn | tcaaggngaa | 180 |
| accttttcaa | gaccaattaa | ctaggggatn | agaggcggn | tggtnntga | ggggcggt | 240 |
| gctgagaaga | ttcgttggg | gacccaggag | tgaaggttt | tnacctgtgt | ntntcggaa | 300 |
| ggtcggatnt | attatantcc | tgctgttgga | ggagtccgt | ggttcaagg | ccggacccg | 360 |
| agcgtttact | ttttnttgn | cgcagccaat | ttgtnttgc | tggtttcttc | ngaattccg | 420 |
| ggcggggagg | gggaagcgg | gggcccatt | accacgatcc | cggcagccac | cgcgaaattg | 480 |
| ttccggcagn | tacgantctt | caacaagagc | cagagaaggc | gggtgcagag | nttcattagg | 540 |
| acgntcggaa | acccggcgtg | acttactttt | tccaagccca | ttggttgatg | agaatgatga | 600 |
| ctgacagggg | ggcgtgggtc | cgtgtgcgcg | ggcgggagcg | acgggtggag | ttaacgacga | 660 |
| aagctgcgcg | cgcagccatg | accctcaca | gccacntatc | ggagggagg | gcgggacagc | 720 |
| tttagcttgg | tgcgtgcgca | gccggacgtg | aggcagttgg | tggctttcca | tcgtcgattt | 780 |
| ctggttacc | | | | | | 789 |

<210> 48

<211> 872

<212> DNA

<213> Rattus norvegicus

<400> 48

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gggggnggct | tttttnggag | gcatanatng | gggnngtcc | ggnaaacccc | attggtcggc | 60 |
| cggggaagga | aaanggggct | ctnaaaatan | gttantggga | tggngcctta | agggggggcc | 120 |
| catgngccag | gaangcagat | tcaaaaatgt | tccaagtgga | aaaccanggt | tggnanaggc | 180 |
| cctccnggnc | gtnaaggagg | agaggagaga | tggagtttca | ggtgtgtttc | ccaccagtg | 240 |
| ttcccaggga | acacaaaacg | gataggtcac | cntcaatgna | caaggaatta | aaagcttggg | 300 |
| tgtatnggga | ggcctgcttc | caaagccacc | agaaaatccg | gagagccggn | ggatcntacn | 360 |
| caccagagg | ttcataggga | gggcantatt | aggggtgtgc | ccttgtgaga | ggaagtgtgg | 420 |
| cacngtgggg | ctgggtttga | gatntcagat | gntcaagcca | ggccattnt | ntctctctca | 480 |
| gtntctctcg | gtctctttct | cngtctctnt | tcagtctntt | cagtctctct | cagactctct | 540 |
| ctctctctct | ctctctctnt | ctctctctct | ctctctctct | ctctcccngc | tgcnttcaga | 600 |
| tatagacgta | gaantctcnt | ntatccagca | ccatgtctgc | ntgcatgctg | ccattnttcc | 660 |
| caccangacg | ataataggct | aaacttntga | actctaagcc | agcctcaatt | aaatttntan | 720 |
| gagtcaaacc | agcctcaatt | aatgttttct | atttctatga | gtcacagtgg | tcattggcatt | 780 |
| tctttacagc | aatagaaacc | ctaactaaga | cttgccgaaa | cctcaaccac | aacttcagcc | 840 |
| ctcagaagcc | caagagggaa | aagaccttga | at | | | 872 |

<210> 49

<211> 785

<212> DNA

<213> Rattus norvegicus

<400> 49

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| tcgtaanttt | tnatccaccn | gtanangatn | ttccatgcca | ccatgtacgg | ttacgaggng | 60 |
| tatagecgtgn | acngtthttg | agtnggctaa | aaggaaatgg | agacntattg | tnttggtttt | 120 |
| gtgaccata | acttcggaaa | ggttgtgttt | tatccggcaa | caaccacngt | gtagcgggtg | 180 |
| tttttgtttg | cagcagcaga | taacgcgcag | aaaaaggatn | tcaggagatc | ctttgatttt | 240 |
| ttnttcgggt | tctgacgntc | atgttgtgtg | gaattgtgag | cggataacaa | tttcacacag | 300 |
| aattcaaagg | agaggagcca | atatagagg | ggaaaaaaa | agaaggggaa | agcattagtt | 360 |
| taaaaagttg | agagaacaaa | gtatgttttg | cttggatggg | caaccaaaga | agcntgccag | 420 |
| gaatggtcgg | taaaagggtg | aagagtcatg | aaacgtcttc | tgtccaaccg | ttaccggaaa | 480 |
| catgcaagga | atttcttaga | ctggccagga | ttggattgtg | ggaaagggtc | cttcaagcnt | 540 |
| ccccttggct | tttatggcaa | gaaaatagtg | cggactatag | agagcgtcgt | tctcaaagct | 600 |
| tgtccccaat | agcagaaaag | cattgtccta | aattccttaa | aaggcaccgt | gaaataaata | 660 |
| ttacgaggac | acgatggcac | aagaaggagc | tttcaactct | gccaccagaa | cagttatact | 720 |
| tcatagtaac | catgttgccc | tgttcaatga | caaggcacgc | tctccagcag | aaagggaata | 780 |
| ggagc | | | | | | 785 |

<210> 50

<211> 889

<212> DNA

<213> Rattus norvegicus

<400> 50

| | | | | | | |
|-------------|------------|-------------|-------------|------------|------------|-----|
| nttnnaaagc | ganccggccn | ggnggggtttg | gncggcgctt | tatacnaagn | cgngccaatn | 60 |
| ggctttgggn | gggntttcat | anggnntgn | tttacccaat | tcagtttttt | attggtnttt | 120 |
| natgggcgca | gggatagnn | gttcnggntt | cccacangaa | tttgatttnt | ggaatcacia | 180 |
| gtnaccagtn | gccgnaatca | cgagtttgcc | gctttntttc | ctaccttana | ttcataatan | 240 |
| gaatgagtan | ttttttttta | ttgagnaang | ttttnacagg | tttagtaaac | atgaggacag | 300 |
| aggttttaag | ttgangatta | ggaaggagag | ttccggggga | cagaatgtgt | gtattntcag | 360 |
| tcagtgcact | acccggaaga | gttgcagtca | ggttgaggaa | gggagcggat | ttcctggagg | 420 |
| ttttaaccaa | cagagagaaa | aagcatttac | tactgattaa | gcacacaatc | tctggattca | 480 |
| gagaaggggtg | tttaccttta | tataaaatgt | ctcctaactg | cgtgactgtg | tgactttgtt | 540 |
| gaagtcaact | gagcactgac | tgtgttgtgt | gcaacatggg | aagaggacca | actttnttct | 600 |
| taaattttat | ttattattta | tgtcacgtgn | acacttggtg | cttttggttt | tgttctaatt | 660 |
| ttatctgcat | atatgtctgc | ataccacgtg | catttctgat | gcntacagat | gccagaaaag | 720 |
| gacaccgagt | ttcccctggg | antggagtta | tagatggtta | taagtctctg | agtaggtact | 780 |
| gggaagtga | cttcagtttc | ctctggaagg | gcagaaagcg | cttttcaa | gctgggcca | 840 |
| gtatttcagc | ccctacttaa | tttataattt | tatttttagag | gatgtgctc | | 889 |

<210> 51

<211> 947

<212> DNA

<213> Rattus norvegicus

<400> 51

| | | | | | | |
|------------|------------|-------------|-------------|------------|------------|-----|
| anaaaaatng | agaagangag | accccagaga | agaagnanga | gaganaacag | agaagaagag | 60 |
| agnaagggng | anaaantaga | gaaaggaaaa | gntcttaaag | aggcnanaaa | ntancnatnn | 120 |
| aaggagaaga | nggaaggnta | acataggagn | caagaatana | aaganaaaaa | gaggtagaga | 180 |
| anncagagaa | cgagaaaaga | tgaaanaaag | antanaangg | aagaaagang | nccagnanaa | 240 |
| anaaggcaga | aanaagatgn | cgtaaaaana | gagagaagat | aggnaaaata | gaggagaagg | 300 |
| ccnaacagga | ngggaagagc | agcgaattnn | agataaaacc | ggagganagn | nagagaagg | 360 |
| agagntngnn | aaggcaaaga | cagnanngag | nacggtacnt | gccccagaag | gnngaagaan | 420 |
| gncnagangg | tgagggnngg | cacngncnt | tccccttagg | aggncgccc | cccagagatc | 480 |
| aggtttcnag | gncaccgagt | tggatacnag | attatncacc | naggcaggaa | angantatng | 540 |
| caaaangatt | cggggngggg | tcacgggggtg | agaaataaan | tcannaaana | gaggacgngg | 600 |
| aggagggngg | gaaactctng | acagaaatng | caagcangaa | gccagccnca | cccaagcccc | 660 |
| nacngaagca | gcngagangt | tgcanggcgg | naggtccaaa | tcancgnagt | catggagnga | 720 |
| gcttcggngg | ggcccnganc | cantgaggaa | gggcaggaaa | ccatatcnag | ccgagccnng | 780 |
| ngangngtgc | cctganacac | ccggagaggt | aattttttatt | tnacgggaag | cgtccagnca | 840 |
| agttcgtggg | ccggaagaga | cggtacttta | gtatacancg | ctnntgctnc | gagttgtnng | 900 |
| nccttntnat | gnnagatctc | acaaangaag | ctnanaagta | gatatgt | | 947 |

<210> 52

<211> 860

<212> DNA

<213> Rattus norvegicus

<400> 52

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aagggaattt | ttaccccggg | tnccttttgn | cnggggggna | aaaaaannaa | aaaataattt | 60 |
| tttaaaatta | aagggngggg | angtttttcc | ggttctattn | ngccnatctg | gggttacact | 120 |
| tttatccanc | ntttgntttt | ttanccggcc | gggttaaaaa | tgggggggga | ttagttcggg | 180 |
| taggngttnc | cnacagcaca | gccctgtttn | tcttcgttcc | ngaaaaaaa | aaattttgct | 240 |
| ggtntcacia | ttttnttaaa | caggatttnc | ttcaaccatg | gattaataca | tttccgggtg | 300 |
| agnttgccc | gtttgttttt | tggntggata | gggatgccag | caggattcag | ggatgcccat | 360 |
| tgtgnttagt | ntctggccct | ttaggagagc | tttgggctaa | ttatgtgacc | gattttaaga | 420 |
| agtgggtgtg | ttgtgggtcc | agggactcac | ggatcagcct | ttattttata | aggacactgt | 480 |
| ggaggagaga | cagaggctga | gctgcattct | gatgtcattt | gtgctgctgt | ggaagttaaa | 540 |
| gaaaagctgc | agaagtcagc | aaaacagatg | aataccaaga | agggcagtgt | gagtacagga | 600 |
| atggagagaa | aagtcagagt | ccagctttgg | ttaactccct | aggatcagac | anttctgcgt | 660 |
| aaggacgggt | ctacagttta | acagaccaca | gagcaangtc | aaacagcaaa | gtggtttcat | 720 |
| ggcaggcagg | aatggaaca | tttaactgga | aacactgaac | ccacccatgg | caaacttagc | 780 |

aatgaagctg ggtgtggtgg cacatgcctt taattccaac actcagggga cagatntaat 840
 gagtttgagg ctagactggt 860
 <210> 53
 <211> 191
 <212> DNA
 <213> Rattus norvegicus
 <400> 53
 aggtctgacc acttggaagc ttgccctgan tcatagatga gccactgtct tcttcccctc 60
 aattcctcag gatggggaac agccattggg ctttttagtag aggagggaca ggcccttttg 120
 cagcaacagt tctcccctga atgttggatc tccacctata cacatggggg acttagcctt 180
 atggatgccc c 191
 <210> 54
 <211> 988
 <212> DNA
 <213> Rattus norvegicus
 <400> 54
 ttnttggnna cgggtntccg nantatgaan cnttcccgg ggttttttaa aancccngga 60
 tattcgggga tttgggtttt nnacggcctt ttttnagag gccaaatncc cntntnaang 120
 ccttttatcc ttcentttnt gcccncctt naattaggaa gcntgggttg nccgantntt 180
 aaggttttta gtentccttc gttntntttt ccctntttt ttcctnaag ttataaagcn 240
 ggtatntggg ttgccaggnt tctnttgtag ccgtcatngc ggttncggn ttaccaggn 300
 tttgttctn ggccggtncc ttccaatttt ggantntccn ggtcngngt ccnattncct 360
 tagnaangtt ccacacntna tgacaattaa ttgtttcctg tgtaatttgt ccccggaact 420
 ntggattctt gngancaggg cctntgtttc atggaagcaa actcccttaa ntatttacca 480
 ggttgattga ttaagaaagt antcatgntt gggaaacca cntgtttnt tcccaggatg 540
 gaancccagg attttggaac tgcagaggct tcagggtctg ggaagcggag gcaggcaaag 600
 aatggagtgc actgtccttt tgcaatatgg ggtttgcctg cctgctggct cctctcntgc 660
 tntctcagat ggtgactgag gctacttcag caggactagg aataatcatg tccagggtggc 720
 tgcccttccg agcagaaagg gacagacgtg gggcgatgaa gttgctatcg tttttttttt 780
 tttctgcaca gactgcaaag tgtgcagagg gagggaggct gtgcaaaaaa aaaaaaaaaa 840
 aaaaaaaaaa aaaaaaccga ggacgcagaa gttagactgc tgaccattt ggtgcatgtg 900
 tgcccatgga gggaggggac cttctcaaaa gggttcacgc agcangcatt gaaagtnccc 960
 cacntgtagg gncgcaagca actgagat 988
 <210> 55
 <211> 665
 <212> DNA
 <213> Rattus norvegicus
 <400> 55
 gaaaaagatt caggaanctt attttntcgt gttcgaacttc agtnggggaa tgggcggana 60
 catttcacac ggatttgtaa anacngtnac ngaaacttgg nggttcgtag atccactttt 120
 ttnagacctg agagtagttt ttaaaatatt tnaattaaag gtttcctgca cccacttttt 180
 tttttatccc taacttttca tccagtatgg tttttcaata tcacanttta atctaggact 240
 ccttgcttaa agcaattaca agttaaatga aaagtaagag atggctnata gctctcatta 300
 ctgggatgca ggtgtgaaac aagtgatttg tgtagaagct ggcaggatgg gtataaacia 360
 gaacacgtgc ccagaggatg tattgaaagt tggatttaag tctctgagta gtttatgcta 420
 ggcggtagca ttgaacaaga tgaantctct gntcatagag gtagaaactn cccagattct 480
 gaggaagtgt gagggagagc attagatgtt actgttgggg atttggaag gccaggaaac 540
 gttactccat gcccaaggag ggtaggagaa aggtttgggc ttagctttga ggacggaggg 600
 aactggtggg tggatatgag gatggttatg ctaaaagcag agtggttttc aactattgtt 660
 cttct 665
 <210> 56
 <211> 857
 <212> DNA
 <213> Rattus norvegicus
 <400> 56

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|------------|-----|
| aaaaaaagaa | aggaaagggg | agananaaaa | annangngan | aaaanagana | ganagaggna | 60 |
| agaggaagng | aggngaaaa | gagaggagan | aaanaagagg | aaggagaann | gaggaaaang | 120 |
| aaaggaacaa | aaganaagng | anggaagana | aaggggagaaa | aaanaagagg | gagaaangga | 180 |
| ggaggggaaan | agagaanaga | ggggggagaga | anncagagaa | nagaannngag | aaaaggngga | 240 |
| gacnaanana | gagggaagaa | aagngaggag | aagagagggg | agaanaaant | tgaagaagaa | 300 |
| gaagangaga | agangagnag | aggaaganga | ggggaagaag | aagaggngga | ggagaagaag | 360 |
| aggagaggag | gaggaaggag | aaggaggagg | aagagaagga | ggaggaagag | gagaggagaa | 420 |
| ggagggaggat | actanggagg | ttgtttcaat | aaaagagnng | gatntaagat | taananaagn | 480 |
| aataatgccg | gtttntatct | gttcgggggg | ggtccttggt | ctccaaacac | aganntgggc | 540 |
| cagtttntca | aaattnaant | gngaagattt | cttggnntnga | gagcagntca | gattnantng | 600 |
| nattnttttc | tagtttttnaa | cacaancttt | gtgntaacia | agagnnganga | ttcnaggana | 660 |
| actcgnnttt | ntttgggagg | agacttttgt | cctttcnatg | aagatgcagg | acngngaaga | 720 |
| cgcaggggtgt | gaacaggaca | cagnnacgct | tnngtntntg | tcngcntcag | cngcgtggga | 780 |
| atgagtcaga | gcagcacggg | gaggtgcctg | gatntaagct | ttctggtagg | gagaacagag | 840 |
| tgcaggcngc | ggcccag | | | | | 857 |

<210> 57

<211> 902

<212> DNA

<213> Rattus norvegicus

<400> 57

| | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|-----|
| aaagggggng | ggaagaanga | aaagggnaaa | cnttngtttg | gaagccnca | nnaaagna | 60 |
| gncgaattta | anaagggggt | agggaaaaaa | aaaacanaat | attccntect | tagccatnaa | 120 |
| ccgaacttcc | ngcaaggaaa | aaaaatttgg | ngggngtaaa | gggcaccnca | tcccacaaaa | 180 |
| ttttgntaan | tttgggcgca | aattcangca | ggntttngtt | ggaaaggngn | ananaccaa | 240 |
| gggatttngg | ggatttnaaa | atcngngttt | nnggcagggn | atccngaagt | tngaatecga | 300 |
| cgncnaccct | ttatttnagc | agttatttan | gggaacatgg | gagggnacca | tttcaaacca | 360 |
| nggatcgggc | cnggagtntg | agtgttcagc | ccacngcctt | cnaacantac | cgggataagt | 420 |
| ttttccctgn | gccagagacc | catccangtt | ccagcaaaaag | gntgggtcatc | tngggcnagc | 480 |
| tccnngagtc | atcnnggggt | tctcccagcc | ngggggccaat | ggtcgaaggc | aggttntttt | 540 |
| tgtctccagc | ttgttcccna | ccgnggggagc | ctgtcaaggc | tgcacagnac | cagantagtg | 600 |
| gtcatntcng | gctagctccn | ttagctccnt | gtccagggga | cttcctggca | ctggattagt | 660 |
| ggnggactca | ggcttgcttt | tttttcagga | gaggttagat | tactaatcat | tcagatgttc | 720 |
| ataagtcaga | acactgagca | aagcaatagn | ttctcctcca | cntactgant | cacacgtgca | 780 |
| caacagccac | acccgcaatg | cttntaggag | caggtccagn | gnacttttgt | tttaactatt | 840 |
| tntggctctt | tattaatcag | cacataaata | cgttcggtt | ctcctttttc | aatatgnatg | 900 |
| tg | | | | | | 902 |

<210> 58

<211> 852

<212> DNA

<213> Rattus norvegicus

<400> 58

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| acagaggggg | ggggggngtg | gaatttttngg | naggangttn | tnggaaggcc | nctaaaaaag | 60 |
| aatgttccc | agacaaaaag | ggggggggna | gttnnaattca | nggatccctna | ngaggnggaa | 120 |
| atttttnnnn | tattnaggat | caggataaat | angaaaangg | gnanatttttn | nnnangnggg | 180 |
| tttttttttt | tttttttttt | tttttnngng | gnnnnannan | annnnnaaat | ggcgnccggc | 240 |
| atggntaatg | gggaanttgg | gganaattac | agagatttnt | ttttcccatg | ggnttccagg | 300 |
| atgaattcag | ntaccaacca | ggttggtacc | agcattttta | cattcgagtt | agacatcaat | 360 |
| ggttaggtcg | ggagtgagag | gttcggggcc | ngacatatat | tcntgggtgaa | cccagtgcac | 420 |
| cttntgggtt | ntacaaggag | cttgaggtag | tcgcccacca | gtagctgtca | ggcaggtggc | 480 |
| ttaagtctag | aaccgnttcg | tggaaaccga | gaagcagaaa | aagacataag | ttntgcngct | 540 |
| tcanaatcca | ctcntgaata | cananatctc | ggccaaagaa | gcacagccag | tctttccggt | 600 |
| nacangaggc | cgggagcaac | aantccacag | ccagcccaag | ganatacaaa | ggacttgggt | 660 |
| cagttctgna | ccagttggag | tcagagatgg | ggccctcaaa | gtcccagcag | tgaagggcac | 720 |
| ggtctccagc | nnacagtgga | acctttaaga | ggtggggact | tgtaggagga | gttagataat | 780 |
| tgggggtgtgc | ctttgtcccc | nacntcgttc | tttccctctt | tatggccttg | atgtggacaa | 840 |

gattgtttct gc 852

<210> 59
 <211> 884
 <212> DNA
 <213> Rattus norvegicus
 <400> 59

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|-----|
| aaaaaaaaatt | ntttttccna | ggnaaataac | ccgngcttaa | ccgggcgggg | gagatcaatt | 60 |
| ntttgtngtt | gtttcctcng | aggcggagng | tcaaaanaga | acacnnctgg | naaaccccc | 120 |
| ttaaaanaca | aaaatttgan | ggggnnggng | ngttacaaaa | agacaggatg | ttttccgagt | 180 |
| cggattcaat | cccaccacaa | catgggggtc | acaccatngt | aaggaatcgn | tgcttttttg | 240 |
| ggggatctct | aggggggtana | nttccaaata | nngataanaa | ttttttttaa | aatttaattg | 300 |
| tanatatatta | ttanataatt | taataaataa | tatttgana | nantnatgtt | ctngcgcctt | 360 |
| gnggactggg | agttttttnt | ccnnatttna | actttcccag | nactnggtag | cctatgtgnt | 420 |
| tatgcaaccc | nttagaagct | gccttcanta | ttnaactcat | actgtttctc | gataatcngg | 480 |
| ggagtagctc | cagttngcta | tgaagctgcg | gaaaggtagg | cggacatccc | aggcttagac | 540 |
| agagttcagg | ttatttgga | cttttnnaaca | gaagtgtgtt | cntgcacggc | agcaagacna | 600 |
| tntgggtccc | gtagttccgg | tcgccaggag | tagtgtattg | cttaggacca | ttctgggtgg | 660 |
| aatgcatctg | gtgggtctta | aannatgtca | ggcagggcct | ggcaccaggg | tctggcgagg | 720 |
| agcctcacat | accgttntaa | tgacttcata | tgcttagaat | ttgtggggaa | acgatgcaga | 780 |
| aaaatctaac | cagggatgtt | tctgggccag | tcatgttggg | gatgcctcag | tcatgtaaaa | 840 |
| ttgagctccc | cctggagcac | accttaaaac | atcttctgtt | taat | | 884 |

<210> 60
 <211> 955
 <212> DNA
 <213> Rattus norvegicus
 <400> 60

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| cccntggaaa | accnaana | atangnnan | anaaanactc | cnccattga | gggaacnttt | 60 |
| tagggnttcc | nnntttcccc | gganccgcca | aatgngacac | caaaannngac | cgnantcttt | 120 |
| ggnggttgct | tctcttggan | cgcnttttgt | tcgaccgggg | tgactaaggn | catgtngggg | 180 |
| acgantaa | gtttccgggg | gcngntcggc | accttccnan | gngngngngg | tttggttctg | 240 |
| gaagnccgaa | nnggcattgn | ttaagatttg | ccnatccatt | taggggtcgt | tcaacgcctt | 300 |
| atctttngag | ttnttgag | ttgggtgggg | aggggagatt | tagtggagga | gtaaattttt | 360 |
| agtagggaga | gagggagggg | agatagaccc | ggagacagag | aaggggaggga | ggaagggagg | 420 |
| gattatcctg | taggatgtga | gcccagacnt | gtctgtggtn | tctttccatg | acacaagaga | 480 |
| ctttntgctt | gtccctagaa | tgcttcattt | tntagtgtct | caaacttaaa | gggctagtgt | 540 |
| aaagttagac | tgtgaacann | tngtaaacac | aggtgacagg | aatgtntgtc | agctgggccc | 600 |
| nttatatgcc | acggcagagt | ggtacgtgat | gccccacat | gttatgtgga | agttntcatg | 660 |
| cagggttca | gaacacagta | gatggagatt | gtgaaaatct | gttgttnact | taagagactg | 720 |
| gcccgaagga | tccatgtgat | gntacttctg | ttgcttgtgc | tttaaaatct | tatgtgatgt | 780 |
| tttgacagct | ccnttcggga | ccccagcaca | cagctgagag | tctgccctgc | tggcactgct | 840 |
| gcctgtctgc | tgaaggggaa | cccaggcatt | tgatgttggc | cggcccaagg | aggggctgaa | 900 |
| gctantgagc | aaggacagtg | atagaccac | acagnagttt | gcaagtaa | gagnc | 955 |

<210> 61
 <211> 1107
 <212> DNA
 <213> Rattus norvegicus
 <400> 61

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| caaanncaa | nggtncnnn | ggnccattgg | gggggggttaa | naatggaggg | gnttnggggtt | 60 |
| ttaaannttc | cccnggntt | caaggaaatg | gggcttttga | ttggcaagga | aggaatgggg | 120 |
| nttccentga | ancctcctga | ggggccaaan | attggggggg | gttnacaccc | ccgggggaaac | 180 |
| ccttcttgac | ccnagaaan | gcngtttagn | ttccnccca | tgggntccct | taccctgggn | 240 |
| tttttttgn | cagccnagca | gccctgggtt | tccttggttc | cttgggcnc | gaaaatttga | 300 |
| atccagtga | ttccaccatt | gagccngcag | aggttgatng | gcaggaangg | tttaaccctt | 360 |
| ngaccaggag | tgacaaattt | ngngggacnc | cccagtngna | gctcacaaca | ngtngacatt | 420 |
| gaggcnccaa | aggattgttg | aggggatgga | ttgtgtcgca | gtctgggttg | ctttatagtg | 480 |

| | | | | | | |
|-------------------------|------------|------------|------------|-------------|-------------|------|
| ccagcatcgt | tgagccccgc | ccagggagtg | ttggcacgcc | caaaccaccna | cccagcgctt | 540 |
| gaggcaaggc | aaacacactt | cccagcccct | taanttnena | cgcctttgtt | gcttggacgt | 600 |
| cccggantgg | gagcaggatg | aaggatttta | gtgcaggaga | agaccagtgc | aagccggaga | 660 |
| catngagttc | cctntaatte | ggtgttcagt | ttgccnttnt | ggcacgtgac | tcgtaactct | 720 |
| ggtatgtgtg | ctgaaccntc | taccagccag | agatcagtgt | ccttaaagtt | cgaatcagtg | 780 |
| tgagggggac | tggaacaat | actgatgctg | ttgccctcta | gtggcaaggt | caactccaag | 840 |
| cgagagggga | agcagtcagt | ctaccgcac | ctctaagata | gtggttctcg | acctctctaa | 900 |
| tactgcggat | taatacatte | ttcatgttgt | ggtgacgctc | caaccataaa | gtgattttcg | 960 |
| ttgctgcttc | ataactatat | ttttgctact | gttatgaatc | gtgacataaa | tactgtgttt | 1020 |
| tcagatggtc | tcaggcaatt | cctgtgaaag | gggtctccca | caggtttgaa | agtntccac | 1080 |
| ctgtagggtg | gccaagctaa | atgagat | | | | 1107 |
| <210> 62 | | | | | | |
| <211> 92 | | | | | | |
| <212> DNA | | | | | | |
| <213> Rattus norvegicus | | | | | | |
| <400> 62 | | | | | | |
| atggggcatc | ttgtaacagg | aggcctggat | tgagtactgt | aactgagntc | ttgaaagact | 60 |
| ttacctgtag | gtttggncng | cttgaaagag | at | | | 92 |
| <210> 63 | | | | | | |
| <211> 209 | | | | | | |
| <212> DNA | | | | | | |
| <213> Rattus norvegicus | | | | | | |
| <400> 63 | | | | | | |
| aattccagcc | catcctgaga | cacacagtga | ccctgtctca | caaaaccagg | gaaaagccag | 60 |
| gtgcggagtc | tcacgccttt | aatctcagtc | tccggaaaca | gaggcagnng | gatctctgtg | 120 |
| agttcccagg | cgaganttct | ttgtacaggg | nncctctga | annncctga | aagatttcac | 180 |
| ctgtagggtg | ggccnagctt | aaaagagat | | | | 209 |
| <210> 64 | | | | | | |
| <211> 97 | | | | | | |
| <212> DNA | | | | | | |
| <213> Rattus norvegicus | | | | | | |
| <400> 64 | | | | | | |
| acagagaaac | agtgtttccg | ttccttaaaa | cgttgctcta | tcttgaataa | caagcttatt | 60 |
| acatgcgaat | cgtattggga | acctactgaa | ttccgat | | | 97 |
| <210> 65 | | | | | | |
| <211> 1047 | | | | | | |
| <212> DNA | | | | | | |
| <213> Rattus norvegicus | | | | | | |
| <400> 65 | | | | | | |
| caaggtgaat | tccanttggn | gttttnaaat | ngtttttnaa | aaanaaattt | tntttgggna | 60 |
| ttgccttnaa | ngtttgggnc | ctgaattcaa | aattccaant | tacccaaaat | ttcatgttcc | 120 |
| atccanaatt | naattccgga | aatttacaat | aatttgaatt | ntagttttcc | caattntaat | 180 |
| ntcagtagtt | tgnntttgtg | tgcccnatt | ntaanatcag | accggtccaa | tcacccaatt | 240 |
| gnttttttnaa | attgaatngt | tttcccntgt | accttccttg | caangttgct | ttaaattnga | 300 |
| atttcagaat | ccccattgaa | aagaatccgg | gnnaaagcaa | cacnttaag | gaccccagga | 360 |
| aaccagaaat | tngnagaaan | ttggacgnag | gganttnaca | ttnttnccgc | canaggatgn | 420 |
| ttgggntaaa | aaccgcgttt | gcgcaaggct | cntgtgttgg | cctcttttcc | gccggggggcg | 480 |
| ctgtggataa | tctctgggtc | agtcgaaccg | ttttaccatc | catttcgtta | ctccgagaga | 540 |
| ctggcgcnncn | gcgggttcct | ccaagatggc | ggcgagagg | aggagcttgc | tccagagtgt | 600 |
| gaggaaaccg | accgcctctc | tgggctggga | gggttgggag | ctcgggtgtg | tcntcgggtg | 660 |
| cagaagctgt | tgtctttaga | tggcagagtg | cggaccctc | gccccagagg | ccntaggggtg | 720 |
| cttgacgcgc | gcgcaagacc | ctttccagtc | tagagcctcg | cctagtctctg | cgcggtgcgcg | 780 |
| ccacagagcc | gggcctctga | gggtcaaggg | cgccgggggc | ctgcggaatg | ggagcgtcct | 840 |
| caagccggaa | aggacatgg | cgccgccgag | cgggccatcc | ggagggcgga | cacgactaat | 900 |
| aataaatcgc | ccccccgccc | ccgcttgtgt | aaggcgcgct | gtatctctgg | cattgtgtgg | 960 |

accgcctcac attcataagc ttcgtcagca gcagtagaga atggccttgaa agacnttnac 1020
ctgtaggttt ggcnaagcttt aaaagat 1047

<210> 66

<211> 1063

<212> DNA

<213> Rattus norvegicus

<400> 66

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| catnggagtt | cccaatggnt | tccntnaann | ggttntnttc | aggttgggca | ncnttttagga | 60 |
| attgaaaatn | ttntttggga | ttcccctaga | atttgatccc | attngggaaa | ttttttatatt | 120 |
| ccngaacagt | ccantnttaa | aattgggcct | nttgggatta | acggattcca | aggttgcaac | 180 |
| anattggcaa | gttttnnggac | aggaggtttc | aantggntaa | agtggataaa | tngtgaattt | 240 |
| tggagangga | attgacttgg | ttggggggcca | aaantaggta | gcatttttgc | cggaggggtg | 300 |
| attgcattct | gtttttgtgta | aanatgaagn | tacttgacag | ctttgagata | agaaggagac | 360 |
| ntaatttgct | aaacatttta | agtgttctat | tctgccggag | ttttggagag | ggtatatgcc | 420 |
| ggtcaggaag | ggagccagaa | gccagtaaca | ttgcaagtat | ttcaacatgg | aaagcttttag | 480 |
| gttatctctt | gtgcacttta | tgctcggnta | atgatgtaan | ccaattgtaa | ttctgggcac | 540 |
| agctttccca | tgtgtctttg | gaacagtctg | ggttttgtgt | tntaaaacaa | catttgtatn | 600 |
| tagttggagg | cttatctaag | gagcttctta | gcattttgggt | tgtaatttat | tttagtattg | 660 |
| tttcagctac | ccattgctac | atagtaaagt | tacaaaaatt | tagtggatta | aaataatgat | 720 |
| gtttggtttg | ctcacgaatc | tttcatgttg | gctgaagttg | ccatttctgc | ttctctctgc | 780 |
| tgaacttggc | atcaactgag | agggttggaa | tcatctgaag | atgggggttag | ccacacctcg | 840 |
| cagttgatat | tggctgtcag | ttggaacctc | agctggggtc | agcatgcata | agtaagcatg | 900 |
| tgteactttt | ccagggtttct | gtcttacagc | atgggtggctt | ggttctgaag | ggccatcact | 960 |
| ctaattggtg | ctgggttccc | agcgagaacc | agtgganccc | aaggatagct | tttgggtgact | 1020 |
| gaaagacttt | aacctgtagg | ttgggggccna | gctanaaaga | gat | | 1063 |

<210> 67

<211> 815

<212> DNA

<213> Rattus norvegicus

<400> 67

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| ccccccccc | aaaccttcct | tccaaaccct | tnggggtggg | gaaaacattg | ggcaangggg | 60 |
| caaattnana | ccccttggaa | tngttngccn | ggnaaagttn | cngttcccca | aaagccaaag | 120 |
| gggggggggt | tccaaanatt | ccnggggttt | tttnnggggg | taaagggntt | naaaggtnaa | 180 |
| aaaatgttcc | cggngccccc | anacttccaa | aggttttccc | ttnnaaaatt | ccnggccttc | 240 |
| cgggggnccn | tntgtneccc | ccnttcccn | aaatnncntt | nngaaaaggg | ttnaanantg | 300 |
| ttnaaaancc | cnaangttaa | angggnnnat | nnaaanggtt | tccctnnenn | ggggngggna | 360 |
| aaaaggtttc | gcgcgganac | cnntgatgcc | caggttcagt | ttccccggag | cttggggcca | 420 |
| gacccgcggc | gcgccttggg | tgtggcggga | gcgcgcgggc | ttgcgcccgg | acggcttctc | 480 |
| ccgccccccg | actcccctcc | gcggcgggcg | gagtaggttc | ttccggctcc | ggtctgaggg | 540 |
| ggtgcctggc | accttctgac | caggatccgc | gggtccccgt | gctgtggtcc | cgggagggcac | 600 |
| gcggggcctg | cctgctatag | cgggtttgca | gggcgagcct | ccctggagcg | gtagggtcgg | 660 |
| tttgggtgtt | gcacgctcgg | tttgacgttt | taatccggag | gagttgtggg | gttcctcgaa | 720 |
| tctcaaactg | ccttcttccc | ttttgagact | tgaaaatacc | cgaagcctgc | cttgtactga | 780 |
| aagacnttac | ctgtaggttt | ggcagcttaa | aagat | | | 815 |

<210> 68

<211> 1034

<212> DNA

<213> Rattus norvegicus

<400> 68

| | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|-----|
| aaaaaanagg | tttccccngg | angtccctng | gggntcnttt | tnngancntn | cgttangggg | 60 |
| ncctnncct | tttccccttg | ggggaggggg | nttttttaaag | cnannnnntng | gtttcnnntn | 120 |
| gggttaagtn | tttncccaaa | agttgggttt | tnnaaaaanc | ccctttnncc | cggacgtttt | 180 |
| ccttnnncng | anaatatntt | ttggggccaaa | ccngttagnc | gggatttccc | aattgcgnnc | 240 |
| cccttgnaaa | cgggttnccg | ggggnggtnt | tnaggggttg | aacnggggtt | taaangtgcc | 300 |
| aaaacgggta | aattggaggc | atthttngnaa | tggcttttgt | tnaaccnntc | ccttgggaaa | 360 |

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|------|
| gggttgtagt | tttnaacggg | naaacaaacc | cogtngtagc | gggtggtttt | tntttnccaa | 420 |
| gcgccggnta | agccncggaa | aaaaaggatn | ccnggagacc | ttgnattttt | nnngggggtt | 480 |
| nacgcnatnt | tttttggaat | tttgggggga | taanaatttt | nnaccnga | tttngnggc | 540 |
| cncncnnngg | gnnaaaaaatc | tnannannat | tnggntattg | aacattttct | ccntgcatat | 600 |
| ttatngangt | atgacccttt | aaacaattaa | gtacttggct | tcagtgggag | agaaagtgct | 660 |
| tagcctcaaa | aagacttgaa | gtgcccaggg | tgtgtgtgtg | tgtgtgtgtg | tgtgtgtgtg | 720 |
| tatgtgtgtg | tgtgtgtgtt | tgtgtgtgtg | taaccagag | gggtgcccac | ttgctcaaaa | 780 |
| gagaaggggc | agaggaatat | gagggaagga | ttgtgggagg | gagtgaccag | tagggaaaca | 840 |
| gtgagtgtga | tgtaaagtga | ataagtaaaa | aaattaaatt | aaattaaaag | taaataaagt | 900 |
| gtctacaaag | tcaattactc | ctttcccttc | ctccaccctt | tcttctaata | ttaggcaaaa | 960 |
| acaaacncaa | aaacanaaac | aancaaactg | aaagactnta | acctgtaggt | tggncagctt | 1020 |
| gaaagagatn | tttc | | | | | 1034 |

<210> 69

<211> 186

<212> DNA

<213> Rattus norvegicus

<400> 69

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| agaccacctg | ggtggaaact | cctattctta | caccaagctg | cctctgtatc | cacagatacc | 60 |
| aagaagtagc | caccgttggt | ttacttaact | catgggccac | ggggtgagct | gaggtctcct | 120 |
| tcctgagcaa | gatggaaatt | ttacttggtc | tgttaactag | cgtgcattga | atggangaca | 180 |
| tatgat | | | | | | 186 |

<210> 70

<211> 1028

<212> DNA

<213> Rattus norvegicus

<400> 70

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|------|
| aaaggaacn | ttttaagcnt | tttnaattnn | gttnccnaan | aaggatttgc | atttaccacc | 60 |
| cttaaattta | ggnatttttg | aatnatttca | accnttgca | ggcagtttgt | nccatgttnt | 120 |
| gggaaagttt | taacaggatg | gttattnnga | caaaacaggt | tttttcagac | catttgtgna | 180 |
| ntatcttgaa | atttcccagt | tttnaattn | tattntaang | atattntagt | tnnaatttna | 240 |
| tgacttcaat | ttgtatanac | aggttcttaa | caaacagtgt | gtaactgagt | accttgcccc | 300 |
| agcatttaag | gttacacaca | tcatacgaac | actgaagaaa | atgtctgntc | tttaattttc | 360 |
| cccttttctc | tgtgtaattt | ccttcaggac | tcctttgtcc | tgagtgggtc | ggcccttgat | 420 |
| aagatggtn | atcttatttc | tgtttgcccc | tgtgttgtaa | tcntgcctga | cagttcttgc | 480 |
| ttaatgcaga | aaccaagcaa | aggttcagtt | tgtactggcn | tcctttnta | gttatctgac | 540 |
| agggatcagt | tttcaagctg | tagccgtggg | cctcagagag | acctctgccc | atatacagca | 600 |
| gcagtctttc | tcattcccagc | cctgggagtt | ctagcaaaga | tttgactttc | tgagttgttc | 660 |
| agggtcagag | accatgtatc | aagcctcggc | tctatttctt | gagtaaaatg | ggcatctggc | 720 |
| acatctactt | agatgcagaa | atagtcagaa | tgaagtgaag | atgtaggagg | agtcgtgtgg | 780 |
| agaaataggc | tctctgaaag | gaggcttctt | cttcacttta | taagctgtag | tgcatccct | 840 |
| tcccaagtgg | ctctgaaact | gtgttagaag | acatggcctc | cccagagctt | ggggaaacct | 900 |
| taaataaggc | tgctgctcag | atgtcagcac | attttacgct | ttactggaag | acttctgctt | 960 |
| cctcttctta | tttctccaaa | tncanntgaa | agacttgtac | ctgtaggttt | gggccagctg | 1020 |
| aaaagatc | | | | | | 1028 |

<210> 71

<211> 1034

<212> DNA

<213> Rattus norvegicus

<400> 71

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aaaaaanagg | tttccccngg | angtccctng | gggntcnttt | tnngancntn | cgttangggg | 60 |
| ncctnncct | tttccccttg | ggggaggggg | ntttttaaa | cnannntng | gtttcnnntn | 120 |
| gggttaagtn | tttncccaaa | agttgggttt | tnnaaaaanc | ccctttnncc | cggacgtttt | 180 |
| ccttnncngg | anaatatntt | ttgggccaaa | ccngttagnc | gggatttccc | aattgcgnen | 240 |
| cccttgnaaa | cgggttnccg | ggggngtnt | tnaggggttg | aacnggggtt | taaangtgcc | 300 |
| aaaacgggta | aattggaggc | attttngnaa | tggcttttgt | tnaaccnntc | ccttgggaaa | 360 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| gggtttagt | tttnaacggg | naaacaacc | ccgtngtagc | gggtgttttt | tntttnccaa | 420 |
| gcgccgnta | agccncggaa | aaaaaggatn | ccnggagacc | ttgnattttt | nnnggggttt | 480 |
| nacgcnatnt | tttttggaat | tttgggggga | taanaatttt | nnaccnga | ttttngnggc | 540 |
| cncncnnngg | gnnaaaaatc | tnannannat | tnggntattg | aacatttctt | ccntgcatat | 600 |
| ttatngangt | atgacccttt | aaacaattaa | gtacttggct | tcagtgggag | agaaagtgct | 660 |
| tagcctcaaa | aagacttgaa | gtgcccaggg | tgtgtgtgtg | tgtgtgtgtg | tgtgtgtgtg | 720 |
| tatgtgtgtg | tgtgtgtgtt | tgtgtgtgtg | taaccagag | gggtgccac | ttgctcaaaa | 780 |
| gagaaggggc | agaggaatat | gagggagga | ttgtgggagg | gagtgaccag | tagggaaaca | 840 |
| gtgagtgtga | tgtaaagtga | ataagtaaaa | aaattaaatt | aaattaaaag | taaataaagt | 900 |
| gtctacaaag | tcaattactc | ctttcccttc | ctccaccctt | tcttctaata | ttaggcaaaa | 960 |
| acaaacncaa | aaacanaaac | aancaaactg | aaagactnta | acctgtaggt | tggncagctt | 1020 |
| gaaagagatn | tttc | | | | | 1034 |

<210> 72

<211> 824

<212> DNA

<213> Rattus norvegicus

<400> 72

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gggggntttt | cnnanntanc | aaaaantngn | tntancanng | antnnttgag | ntggtgaagn | 60 |
| aangnggaaa | angttttgaa | atcantgtaa | tgaggttcca | aaaattgagc | aggaaattgg | 120 |
| atgntgtcag | gagaaaccen | ttcagtnttg | tgcaattggg | tcgccagcag | ttaggaccgn | 180 |
| ttccccatca | cttgtgccag | cggacatcca | gntattgagc | cntgnatcat | ttatggnaca | 240 |
| aattaggaac | acacaacaga | gatccgcttt | ntgactgcc | tggtcgccaa | actcaattgg | 300 |
| gggaagtaat | cctccagacc | gttccgtttg | cacgtntagg | aagccacagt | gaaaacacaa | 360 |
| aattcgtgga | ggcgactcta | accaggaagc | ctaateccnt | agattcccgg | gacactgggg | 420 |
| caggcgtcct | aaaaacagct | ttgtggggct | tcagtcctcc | gtgcgggttc | agtcggggtc | 480 |
| ttggggatcg | ccctcgcggg | gaatgtccgg | gactccggtc | ggatcttttt | tggcctggga | 540 |
| atttccagcg | tgtggaaaaa | gtccacaaac | ttagtcctca | ctgcccgcct | cgcctcctcc | 600 |
| ggcccttctc | gggtgccacg | cacccccga | tcgaaccgga | ggatgagcat | agggtgtatt | 660 |
| ttaggcgtgc | tgggcttccc | cgccccctc | tgcccactta | gctggcaaga | agaaagccag | 720 |
| cactataaag | gaggccaggg | ccaaggactg | gcctcctctt | gctcacgagg | tcagacgcga | 780 |
| gctctgaaag | acttcacctg | taggtttggc | aagctgaaga | gatc | | 824 |

<210> 73

<211> 774

<212> DNA

<213> Rattus norvegicus

<400> 73

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|-------------|-----|
| gagggganna | ncancaggac | caancngata | aggggggtcaa | caacntgngt | tcnccccntt | 60 |
| gagngggaaa | tgagcacgng | gcantccaac | cgntcaaggt | cccgnttcgg | acggtcacac | 120 |
| antaggttnt | catntggatt | gccngngttc | cngttggcat | ccgggaaaan | tgagactgtg | 180 |
| tcggtaccag | agntaggatg | gccttccttc | ccngccccgg | ccttnttggc | gccttgcgat | 240 |
| ccttccccgaa | ccggccccntg | gcgtctccgc | cttnggcact | tgcacatntg | gcggccccagg | 300 |
| atggcgcttc | cgggatggcg | ccagcgcgcg | tacgtcatca | cggagcgctc | atgtgttcct | 360 |
| tctgtccaag | cgcntaggag | cctgcgcgta | ctcccagcaa | ggaagatgta | ggaccaaata | 420 |
| gtagaagcac | ttaacatgaa | cgtcaaaaacg | atgaccaatc | acagggcgat | atatgcgcac | 480 |
| gcgcaatgtt | ccaatcatgg | ctcataagca | atccggaagt | ggccaattaa | atatactatt | 540 |
| tactaatcca | gggttacaca | gtgaaaccct | gtctcgaaaa | ataaacacag | ggctggagag | 600 |
| atggctcact | gattaagaac | actgactgct | cttccagaag | tcttgagttc | aattccgagc | 660 |
| aagcacatgg | tggctcacia | ccatctgtaa | cagattctgg | tttatgtnga | gacaactaca | 720 |
| gtgtactcgt | attgaaagnt | nccccactgt | aggttnggca | agctaaanga | gatc | 774 |

<210> 74

<211> 248

<212> DNA

<213> Rattus norvegicus

<400> 74

| | | | | | | |
|------------|------------|------------|------------|------------|------------|----|
| tgacacttca | tggaaactga | gaccgggagc | ttccaccaga | aggcactgcc | cagtggagaa | 60 |
|------------|------------|------------|------------|------------|------------|----|

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aaccgacttc | tttttgttgt | tgttctgatg | ttttgttttt | gagataaagg | tctcactgtg | 120 |
| tagctcaggc | tggttttgaa | atcaggatcc | tgaccctcag | gaatgtttaa | gtgcctaaaa | 180 |
| gtggngacaa | attattttac | gtgcctttga | aagacttcac | ctgtaggttn | ggcnagctag | 240 |
| aagagatc | | | | | | 248 |

<210> 75

<211> 833

<212> DNA

<213> Rattus norvegicus

<400> 75

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aanggggtta | tnntggagan | atnctaagnt | cccaaagcaa | nttaggattg | ctnccnnnng | 60 |
| aattnttaag | cntttgcatt | aagtantaat | gccaaaatga | ccccaanata | tngntccttg | 120 |
| antgtnttaa | aaangaggat | cttcnttgnc | catanacgcc | ntatatgaaa | gcaactgaac | 180 |
| aagattttaa | attggacagg | tcacaancgg | gcgtgtgcct | ttaatcccag | cactcgntgg | 240 |
| ctgatagaag | cagatgcatt | tatgtgggtt | tgaggacagn | tngnttnacg | tagagagttc | 300 |
| ntatatcagt | agggctttgt | agagaccnta | tctcaaaaaa | caaaagcaaa | acaacagaga | 360 |
| aaaaatcaat | tgaccatgtc | ccaattacct | ttatttatct | gtaacctatc | cttagttata | 420 |
| ctcgtaatct | ttttctctct | tcagtttgcg | tacgggacag | cagacctact | cacaacccaa | 480 |
| gctntaaatg | atgagcgtac | tcagccaggg | agcttcaccc | cacttaaccc | cataagatgg | 540 |
| cggcagcgcc | tcttcaccca | ctcagggtcg | aagcacgcat | cacgtgatgc | gctccagctc | 600 |
| tcgccgcggt | ggctgacggg | aggtggagat | agaacgaggg | tgtcggccat | tttgtgtctg | 660 |
| tttcctgccg | gacgtgggtg | tggcgggttg | ttccgagaac | tgtgcgagtc | tcttctctct | 720 |
| tttttttttt | ttgtttttcg | ttttccccc | agcttctttt | cgcctctntt | ctgcatagtc | 780 |
| tgtagtgcgc | agttgaaaga | ttccacctgt | aggttgggca | agctaaaaga | gat | 833 |

<210> 76

<211> 880

<212> DNA

<213> Rattus norvegicus

<400> 76

| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|-----|
| aanatggntt | ggtntntaaag | gttaaaattg | gggcaaaatt | tttccgcccc | ggtcctttaa | 60 |
| ccggattaac | tccaaggcca | aaattccgag | ggggaatcaa | caacaaggac | ccaaccggat | 120 |
| taaggcgggt | tcaaacaaac | ttggatttcc | ngcccttttg | ggcgggggaa | atgggcacgg | 180 |
| gngcattcca | agcngntcaa | ggttccggct | tgccgacggg | taacacaant | aggtttctca | 240 |
| tctagattgg | ccngcgttgc | ggttgagcat | ccgggaaaat | tgagattgtg | tcggtaccag | 300 |
| aggtaggatg | ggccttcctt | cccngccccg | gcttcctggc | gccttgcnat | ccttcccga | 360 |
| ccggcccttg | ggtctccggc | cttggggcact | tgcacatctg | gcggccagga | tgcgcttccg | 420 |
| ggatggcgcc | agcgcgcgta | cgtcacacag | gagcgtccat | gtgttcnttc | tgtccaagcg | 480 |
| cttaggagcc | tgccgcgtact | cccagcaagg | aagatgtagg | acaaaaatgt | agaagcactt | 540 |
| aacatgaacg | tcaaaacgat | gaccaatcac | agggcgatat | atgcgcgatg | gcaatgttcc | 600 |
| aatcatggct | cataagcaat | ccggaagtgg | ccaattaaat | atactattta | ctaatccagg | 660 |
| gttacacagt | gaaaccctgt | ctcgaaaaat | aaacacaggg | ctggagagat | ggctcactga | 720 |
| ttaagaacac | tgactgctct | tccagaagtc | ttgagttcaa | ttccgagcaa | gcacatgggtg | 780 |
| gctcacaacc | atctgtaaca | gattctgggt | tatctgggnt | cnactacagt | gtannggcat | 840 |
| tgaagatnn | tacctgtagg | ttggncagct | aaaaaggatc | | | 880 |

<210> 77

<211> 864

<212> DNA

<213> Rattus norvegicus

<400> 77

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aattttaant | tgttggnata | anggcttgnc | catatccttc | ctnttgtttg | ccctaagtaa | 60 |
| cagccaattg | ggggagaant | ttntgtcag | tatcatatct | ttcgtagggg | aacggaggcn | 120 |
| caggaantga | tccntntggg | ttacagtcac | tttagcatag | gntgacagtt | ggngaccaan | 180 |
| tnatcttgcc | gtgttggaag | gagaggggan | taaggntgaa | gctcttgagt | ccnttgangc | 240 |
| ccttggaatc | gggaantccc | ttaaaccaac | cccttttgcc | gttgaattgc | accaaccaga | 300 |
| ttcttccagt | ctgcttgagg | angacaggac | ttcattgctn | tggagagggg | caggagggtt | 360 |
| gggagttgac | ntnacagggc | tcagggatcc | ttttagaagg | gtccagggtc | atggcttccc | 420 |

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| ccccccccag | ccaggtcaga | cactaaagtg | tcttaagccc | ctccatactt | gccgctcccc | 480 |
| cacnttggat | gaagccggcc | attaggcagg | gaccgtctct | gggagaggcc | aagccctctg | 540 |
| gctcacttgt | ggatttcctt | taagcaagac | ttcctctctg | cttccaggac | tcctgtcaaa | 600 |
| caagagggtc | cctggcttag | agtttgggag | ctgcaggcag | aacagacatt | ccccgatgac | 660 |
| tcacaagcct | ggaactctgt | gggccagcag | gaatggggat | ggctttctgg | tcagtcaggg | 720 |
| tcaactggga | cactcactct | gagacaggga | ggcaagggag | aaacagggtca | gaggtagaga | 780 |
| gagctcagtc | ccagggactc | acgttgaggt | ccctaagggtg | cgctagggag | aggnttttac | 840 |
| attcggttng | gcaagctaaa | agag | | | | 864 |

<210> 78

<211> 874

<212> DNA

<213> Rattus norvegicus

<400> 78

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| gaggttggac | cacaaggagn | ttggnggaaa | atnnaaaagt | caacctatca | gggtgtcttt | 60 |
| tagtttggaa | cagaggcttg | ggcagaaata | tgggcaagta | ttaggaaagt | acaaggggaa | 120 |
| atgttgtcaa | cgcnnttggt | ttcccagttg | ttgnactgat | ccnccagga | tgttttccca | 180 |
| cntatgntat | ggaaccttct | ctttcaggaa | gccattntna | ncntatggnt | tgcaaccctt | 240 |
| ttgggggtcgc | aacagcaggt | attaacatta | ggattcataa | cgntagcaaa | atnacagtta | 300 |
| tggagtagca | atgaaataac | tctatgnttg | ggaggggtcac | cacaacanga | gggacggtat | 360 |
| cacaggnttt | tagcattagg | aagggtgagg | accttatttc | agagtgtcnt | gacaatcntt | 420 |
| cntgggacca | cttgacttna | tctggagccc | tttcctcac | gctcntactc | cttaccatct | 480 |
| ctgcacagct | ctntgaggct | tagagcggtc | tttcttcata | gctttcctnt | ttccttcagg | 540 |
| tatgcagtca | catcttgctt | tagaccccag | ggacattccg | tgtctgactc | actgcacaaa | 600 |
| atagtttccc | acatatgagt | cctcaaccgc | cccacatcac | gagacggaca | agaccggaga | 660 |
| cgccatacat | tctgtatttg | ccctccttcc | tcatttaaat | aggaatttgt | tgctgtttaa | 720 |
| tttttccatta | tttgtgtgtg | tgtgtgtgtg | tgtgtgtgtg | tgtgtgtgtg | tgtgtgtgtg | 780 |
| tgcgcgcgca | cgttaatatg | ccgctcagaa | tagtctaaaa | ctgctgggct | tgaaagacnt | 840 |
| ncacctgtag | gtttgggcna | gctaaaagag | tatc | | | 874 |

<210> 79

<211> 886

<212> DNA

<213> Rattus norvegicus

<400> 79

| | | | | | | |
|-------------|------------|------------|-------------|-------------|------------|-----|
| atTTTTnaat | tgcagcaatc | ctcctgcctt | ttttcttgggt | tgttaantca | caggatnttt | 60 |
| gcacacttga | ggttgaantt | gcagcaatcc | tcctgctttt | gtttnttggg | cgcttggatt | 120 |
| atagtatgtg | cataacactt | gagcagtaac | tgttttcttc | aatctcattt | atctcagaag | 180 |
| ttccccttgn | tgattcagac | gttattaatt | aggcaaacca | atgttgattg | tcattaccca | 240 |
| tgagttgctt | ggcttgtgag | atgcatactg | tgtgttcgtg | aggcacntac | tgtgaggcat | 300 |
| gtgcccgtga | ggttcatggc | tgtgaggtgt | gtgcccgtga | ggttcatggc | tttctngacc | 360 |
| acngggagta | tgaaggagag | gaatcctacg | tttgatgccca | gccaggggta | tacagcaaga | 420 |
| tcccgtctca | aaacaaaatg | aagaagtaga | gagattagtg | ttaataagca | actgaggcct | 480 |
| tgaagggtcg | aggtcaggcg | gtgccctggg | gcacacacag | aagcgtgccca | gtgacgtcag | 540 |
| acagactcag | ccctgtgtca | gacaggccgg | aggggtgactg | gccatgtggc | gtgattggac | 600 |
| acattcccaa | aaaaggaact | cgatggaaga | ggctcctcnt | gctccagaca | gggcgggtgg | 660 |
| tatgtgactt | gtgcgagatt | agtctcatac | cctattgcta | gcctgtgcct | ggtaccacgg | 720 |
| acatgggtaca | atccagggag | gagccgtaag | cactacaggg | gagccatcct | gaatcccagc | 780 |
| aagtccaact | tctgtttttt | cttccttccc | cgcaacatta | ggaatgactt | ctaagagngc | 840 |
| tgttgaaaga | ctttcacctg | taggttgggc | aagcttaaaa | gaggat | | 886 |

<210> 80

<211> 865

<212> DNA

<213> Rattus norvegicus

<400> 80

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tggaggtaaa | agtcacaagn | ttttcaaggg | tttgagatga | cagttcaacg | tgagnattng | 60 |
| acaaggattg | attcttgnnn | acaggaaagn | tcccatccc | accaananac | accgtgttca | 120 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggcccantgc | tcagagctcc | gggcgccagc | gaagggcaaa | cggccactga | ttggaaagnt | 180 |
| gcagtttaaa | gacatgtccc | aggaactggg | anccttgtgt | gactggactt | agccttgcaa | 240 |
| ntctgtctga | agcataacnt | gntgctgtct | ntgggcgagc | atztatgtgc | cccacttgag | 300 |
| acccatctca | ggacacgcag | gacacgggtc | agtggagctt | tccctccaga | gagaggtggt | 360 |
| agggncctac | agtgagcttc | caaggacagg | ggaccagaac | ggtgaaaaca | aaccagggct | 420 |
| gtgaaggaga | gcagggcggg | ggggggggga | ggggggggcg | tctntagaat | agattgaacc | 480 |
| tgcagagctg | cttgctacct | gaagttgtca | cccttttacc | cacccacntc | atctgtctct | 540 |
| gcttgaccat | ctcagcaagt | gtcacctcgc | tgccaggaca | caagtttcct | aaagcttatt | 600 |
| tcagtgtcag | ccgctgggga | gacacattca | gggcatgggc | gtcccccagc | cctcggggag | 660 |
| aatgtgggag | gtggcgatgt | gggagggatt | cgagagaaga | gaatgcttaa | gaaccatcca | 720 |
| gggaacctgt | gcgtttgaag | gtctgagtta | cacacaggct | gctcaggaag | gagctagagc | 780 |
| tccaaatagg | agctgtgatc | aggctgtgtg | tgtgtgcctg | gtgaaagact | ttnacctgta | 840 |
| ggtttgggcn | agcttgaaaa | gtatc | | | | 865 |

<210> 81

<211> 859

<212> DNA

<213> Rattus norvegicus

<400> 81

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| cangagcant | ntgaancagg | catttntgga | agggtccng | agaaaacacg | tggaattnct | 60 |
| tgtctctggg | acttttagtnc | cagcnaggan | gatncagtga | gggaacacac | cgggcttttg | 120 |
| ttgtgcacgg | gaggccaggc | tcancnncct | tgggagnttg | acatccagca | ggctatanac | 180 |
| agtgatccag | gggacatgta | cacatgggga | actgnccagg | cagagaaaaga | caagagaaaa | 240 |
| tctcaaanga | tgaagacaga | gangagtaat | atggccagaa | ngatacagtg | cctcntgcat | 300 |
| aacccttgag | tttaatttcc | agggtcaact | gtattttgaa | agtataaatg | aaagttcctg | 360 |
| aagtaataaa | tttataggat | gttagtatca | cactgttcag | aatagctcaa | aaaatcctgc | 420 |
| cntgtcctct | taagtatgtg | aatcatcttt | tactgcaacg | tgtccacaat | gtatatacta | 480 |
| catacccaaa | agtcctcact | gttatcccaa | ttagtaggct | ggctgccaat | agttgtccat | 540 |
| acagagtgcc | tgctgctgtg | gccatcenta | ctgtagtaaa | cagtcatcca | aagctcagga | 600 |
| gtgaggctat | tgtagaaatg | cacttcctgg | gggcctact | gtcagtgagc | acctgagaga | 660 |
| gaaagggaca | caggcccaag | gtgggaggcc | ttagataaag | gcccatcatg | ctcaggaaag | 720 |
| gatttntaca | gatctcttag | ggaagttaca | atcaaattca | tacctcacag | cagagctcag | 780 |
| gagaagaatc | cataaagnnt | gaagacatgc | ttgtngtgnc | tgaaggacnn | tacntgtagn | 840 |
| tngggccngc | tgaaatttt | | | | | 859 |

<210> 82

<211> 1021

<212> DNA

<213> Rattus norvegicus

<400> 82

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| caatngncaa | aggtttggaa | cccngnaaat | ttnaaaagtt | tgcgngantg | gttgacnttc | 60 |
| cnggtgtnaa | nggtttcccc | gttcngattg | nagggatcnc | ttttatccct | tttttnagnt | 120 |
| tttttttgag | nggaattttg | ggttcnaant | gngttaccct | taagtaaccc | cattttgcan | 180 |
| ggcatggaaa | atacctaaan | tgggatngaa | agttcanatn | gaggtcagga | anggntggaa | 240 |
| cagggtngac | cggttngacc | gttggacctt | tgaganccat | cagatntttc | ccaggtnncc | 300 |
| ccaaggactt | gaaatgaccn | tgtnccttat | ttnaantacc | caatcagttg | gtttctcgct | 360 |
| tctgttcgcg | cgtttttggt | cccggagttc | aataaaggag | cccacaaccc | ntcantnggg | 420 |
| cgccagtcct | ccgattgact | gagtcgcccc | ggtaccctgt | tatccaataa | acctcttgct | 480 |
| agttgcatcc | gacttgtggg | cttcgctgtt | ccttgggagg | gtctcctctg | agtgattgac | 540 |
| taccctgcag | cgggggtcct | tcaaactgca | gttctcaagt | aagctcaacc | atccgagggg | 600 |
| cattctcaaa | gccaagtcaa | acttgggagc | cctcactcct | ggtgggtctt | caaaagaccg | 660 |
| tgcattggat | agtcagagac | tctgcaggag | cggattaagt | ccaggcctgt | ctccctgctt | 720 |
| tctgcctggg | ttctaaagtc | aagaaggcca | gatggctcag | atagttgaga | cagtggctta | 780 |
| gctgattctc | tggggatgca | tttgggtctg | ccaggaaacc | ctggagagtt | ttctacccaa | 840 |
| gatactaaag | ttcaaacggc | agcgcctgtc | ggcagactca | gcctatacaa | agctggcctg | 900 |
| tatctgatgg | gattntaagt | ccctgggcag | acccgggttt | gtgggcctga | agcttgagtt | 960 |
| ncaggagact | tagtgggcca | tgggattcct | ttaggatccc | gatatggnc | aacttaaact | 1020 |

g

1021

<210> 83

<211> 1013

<212> DNA

<213> Rattus norvegicus

<400> 83

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|------|
| ttttgagttt | tctcngcccg | nttgtgncng | aaanncagcg | ggggtntntc | actgtgnntc | 60 |
| tcacatgtnc | tcacacanat | cnggggggacn | ctcacancnn | catctcacnt | ntgnganctc | 120 |
| acactcgtgt | gggntctttc | aaaacantgt | ncnntggata | cncagacact | cnncnagnn | 180 |
| ggtntatctn | cacnngtgte | tcngngnttt | nngcnngnnn | tcnaanctca | aaagcgnct | 240 |
| nnggcacata | tntntgacac | ngnggtatat | nngnctctcn | ggnganacat | ttgntncgca | 300 |
| caaaaanccn | tggagatttn | tctacncaat | annctanttt | tcacaggnga | gcncntgtnn | 360 |
| anacnncac | cntanacaan | tnnngnntgt | ntcagaggng | attttanctc | nntggncana | 420 |
| cccgnntntg | tgnnccaaan | tnttggtttc | caagacatat | agtggnacat | gnnactctnc | 480 |
| gatntccgat | gagnananat | gtgntcngac | ntttacagcg | natacacngt | ggngcanntn | 540 |
| tcacagatat | gtgntatnt | cnnacanaca | aatntgcnn | actcctctcg | tgtataaatc | 600 |
| aatanaagg | ngggttaaca | tnnggccncn | gttgnncagt | natanccnga | aacacactcn | 660 |
| caagggtcnc | aanttttnca | nctatacacn | cncncccgan | gggncngngc | acaaatgtgc | 720 |
| nccgaaattt | tatncgccnc | naacactctn | aaattnttcc | cgggacccta | gatataattn | 780 |
| tccncattna | aaatttgcac | attntttnc | anttgccang | gnantcgggg | gttcaccnc | 840 |
| cncnttgga | aggggnntnt | tnaacccggg | ttcnaantta | taggggggtt | tanatcnccc | 900 |
| cattttttna | aaaagngttt | accntgggcc | ccntnttttn | cnaaaaaatt | tgnccccngt | 960 |
| ttancnccgg | gggtggggaa | cncgaatttc | ttngggngcc | cccctnagnn | ttt | 1013 |

<210> 84

<211> 1002

<212> DNA

<213> Rattus norvegicus

<400> 84

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|------|
| aaananttna | cacggattcc | ttttcctcaa | aaccaatggg | ggaataaatg | atgtngtagg | 60 |
| gttccccngt | aatggatact | aggttgaact | tccangggga | antattattt | caataagggt | 120 |
| ttagagggtc | cacttgtnat | caggttattc | tgttgctttg | ggtcaagcaa | acagccnatc | 180 |
| aggattgtga | ttattngant | aaccatttta | cctnacagcn | gggagggaan | ccaangggag | 240 |
| gcttgaggaa | acggcttggt | ggttcataaa | ctctttgaat | cataccttgg | gtgattcaaa | 300 |
| tgctttttac | taggctctcc | tttcatagta | cctctcttgt | ggacaaggac | ccagtccttt | 360 |
| gaaaagcatt | gaaaactcaa | accataccac | tatcagtttc | agctttaata | taaattagct | 420 |
| ttctaagttc | agctgaccac | nttttcaactg | gaccttcact | gatctcacag | ggaagatata | 480 |
| ttttcaacaa | ttacaaagac | atttctgggt | tggactatgc | attcctttgg | gccagattct | 540 |
| acatcctttt | tttatgccag | aatttttttag | cgttcctgta | agattgtcag | tttcccctag | 600 |
| gaaatccata | aagctttaaa | tgccttctaa | atagccaata | ttttaatgag | aaatgtagtc | 660 |
| actgatatct | ctttgtattt | aaagggttatt | ttgaggggag | ttgcttggtt | ggttgggttg | 720 |
| ttgggttggt | ggttgggttag | ttgggttggt | ttggctttgg | ttttctgtcc | catggtaata | 780 |
| tgatacttat | gtcatagatt | agttaactca | aatggtcttt | tcaggtggca | gtctggaaaa | 840 |
| caactaactt | ggggggaaaa | aggctgctcc | atgttctata | aaagctgtac | atgtgatttt | 900 |
| ctctgcttta | ccttttatac | tcattttattn | tgttattttg | gtatgaaagc | cttccgtatg | 960 |
| aaagacntt | acctgtaggt | ttggggngct | agaaaagatc | tc | | 1002 |

<210> 85

<211> 1031

<212> DNA

<213> Rattus norvegicus

<400> 85

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| caacnnccat | nttttggaat | ttngggggta | aaatttaaac | cgattcnttt | tcncaaacc | 60 |
| caantggggg | atatnnatgt | atgtngtagg | gtccccngt | aatggaatat | ttagggttgaa | 120 |
| cttacaagg | aaatattatt | ttcacaatgg | tttagagggt | ccactgtnac | aagtattctg | 180 |
| ttgctttgg | ccangtcaaa | cagcccatca | ggatggtgat | attagaatta | accatttatc | 240 |
| caacagccag | gagaaancca | aaggagcctt | gagaaacggc | tgtgggttca | taaaactctt | 300 |

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|------|
| tgaatcatac | cttgggtgatt | caaagtcttt | ttattaggct | ctccttcata | gtacctctct | 360 |
| tgtggacaaa | gaccccagtc | ctttgaaagc | attgaaactc | aaaccatacc | actatcagtt | 420 |
| tcagctttta | tataaattag | ctttctaagt | tcagctgacc | accttttcac | tggaccttca | 480 |
| ctgatctcac | agggaagata | tattttcaac | aattacaaag | acatttctgg | gttggactat | 540 |
| gcattccttt | gggccagatt | ctacatcctt | tttttatgcc | agaatttttt | agcgttcctg | 600 |
| taagattgtc | agtttccctt | aggaaatcca | taaagcttta | aatgccttct | aaatagccaa | 660 |
| tattttaaat | agaaatgtag | tcactgatat | ctctttgtat | ttaaagggtta | ttttgagggg | 720 |
| agttgcttgg | ttgggttggt | ggttggttgg | ttgggttggt | agttggttgg | ttttggcttt | 780 |
| ggttttctgt | cccatggtaa | tatgatactt | atgtcataga | ttagttaact | caaatggtct | 840 |
| tttcaggtgg | cagtctggaa | aacaactaac | ttggggggaa | aaaggctgct | ccatgttcta | 900 |
| taaaagctgt | acatgtgatt | ttctctgctt | taccttttat | actcatttat | tttgttattt | 960 |
| gtgtatgaaa | gcccttcncc | tatgaaagac | nttcactgta | ggtttgggcn | gctagaaagn | 1020 |
| gatennnaaa | a | | | | | 1031 |

<210> 86

<211> 1039

<212> DNA

<213> Rattus norvegicus

<400> 86

| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|------|
| aanttttgng | agnttttgga | atnnaacngc | ggttccttat | gntggnaaan | aaaccnctnc | 60 |
| nanaccccaa | taccttggtat | nttttaanat | gcncctgggt | aagcnaantt | gaattatttt | 120 |
| ccntgggata | anaagtggaa | tcattgacag | ttttgtggtc | cttttnncat | cccatgnngg | 180 |
| tttnatgact | aggcacttta | tttcatggac | aaaccagtgt | tgtccctcnt | ggggactgag | 240 |
| tgggattaaa | aaaaccttcc | aaaaatgtgt | aatntgatca | aaccatttga | gacaatcagt | 300 |
| gnggagtatt | agcaaattaa | actgacttgt | tcacttntga | aaantgatgt | ctgatttcgg | 360 |
| aagaatccca | gtgcctcggg | acatgaaagg | gagatgtaac | cttgagttca | tgggttaggag | 420 |
| ggaattcata | gagacagttg | gtaaaaatct | gagtgaggtt | gagaggttgg | aggaccacat | 480 |
| tgtgtatttg | ctcatcntgt | gagggagaga | ctttgtactc | tgtcttgaga | aggcagaact | 540 |
| gttaggcaga | cacttagaga | atatatgtca | tggcaaaaga | catccacca | acaagtcttc | 600 |
| agtaacaaag | cactaaacag | aaaggggttg | aagagactgg | tcagtggctg | agagctttta | 660 |
| ttgctcttac | agaggactcg | gcattgcntag | cagctcacaa | cagcntgtga | cttcaacact | 720 |
| atgcctctgg | cctcaggaga | cacctgtgta | ctcccacca | gacacatata | cttaaaaata | 780 |
| aaagaaatct | tttaaacatt | gagcaaattgt | aatcaggtac | taacattgaa | tatatctggg | 840 |
| gccaggaatt | attctgggtt | attgcctttt | tcggaagcct | aatatcacac | atagagaaat | 900 |
| aggcagcaca | ggcctaacag | cccataatgt | gtgctattct | atcaatagtg | ccaagtattg | 960 |
| acatggacta | ttcaaaaggc | ccaaaagtta | aatggcccag | aagtncaaca | taaagnccgg | 1020 |
| cnagctaaaa | gagatcntc | | | | | 1039 |

<210> 87

<211> 1058

<212> DNA

<213> Rattus norvegicus

<400> 87

| | | | | | | |
|-------------|------------|-------------|-------------|------------|------------|-----|
| aaaagctttt | tttcagnttg | gccaattttt | aaccatttaa | anattgttnt | ttggaatcng | 60 |
| catttggttna | ngttattgnc | gaggaaggta | ntaagggant | ttttcccaaa | ttncaccat | 120 |
| tnntggccag | ttgggatttt | gattgantgg | gaacccccca | ggnnttaata | agcctttgga | 180 |
| tttgttcaca | ggggattaac | aaantccttt | gnttaatggg | gattgaattt | gggaaattgn | 240 |
| ttcentaatt | ttccaggacc | aatgcacant | ggantattag | aactgatgta | acagagtgat | 300 |
| atgggaccaa | gtaggaacaa | gggtgcaggt | ttgccgaggc | aggtaattgn | tggctctgtc | 360 |
| attgtcataa | ctttcttgaa | agtttttagga | cttggaacgga | cagaagacat | gatcattagt | 420 |
| atacttgatg | acaagtggag | atgaaaggac | aaaaatttgt | cacatcaaga | ggagaattta | 480 |
| acattgggtt | ttcttgcat | agctatccac | tcttgccctc | accctccac | ccccttaatc | 540 |
| ccagttacct | tgacgattga | ggtcattttc | tctgaacaca | ttctcttctt | ggatgttaaa | 600 |
| gtgccatttg | acactgtgtt | tagggacact | gcttaggccg | gggtggggga | attgccacag | 660 |
| aagcttgacc | ttagaagggt | gagactctgg | aagcctgaga | gagatgagat | ctgtcaaaga | 720 |
| aacgcttagc | gttggtatgg | gatgcgtagg | aggctgtact | cttgttctct | agatgctatc | 780 |
| acgggtgatg | taggagaaat | gatctcactc | agcccaagat | cattcccttc | caaatgtgct | 840 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| catcccatca | gcaagcaaga | cctgtactga | agccagcagg | ggcgtggtac | agagtccggc | 900 |
| atTTTTtgca | tgccatgctg | gtttgatgtt | tgaactctaa | aggtggagac | tgttgggggc | 960 |
| agcagggcag | acagtcttct | gatgatttct | ctgccttcaa | actgaggtnn | actcttgaaa | 1020 |
| gattncacct | gtaggtnggg | caagctaaaa | gagaggcc | | | 1058 |

<210> 88

<211> 1043

<212> DNA

<213> Rattus norvegicus

<400> 88

| | | | | | | |
|-------------|------------|-------------|------------|------------|-------------|------|
| atTTTccatt | gcgcncatt | gaacggnttt | gcgnggggtn | ttaggggtnn | aanggatttt | 60 |
| nagtgtgcn | aanaaggtag | attgaaggcn | ttntttggat | ttggntttgt | aaanccattc | 120 |
| ccttngaaaa | ngagttgtag | tnntaanccg | caaacaacca | ccggtttag | cgtgggtttt | 180 |
| tgttgcaagc | ngcggtagg | gcggaaaaaa | ggatntaagg | agatcctttn | ncttttcttg | 240 |
| ggggtctgac | gnntcatgtt | gtgtggaatt | ntgagcgggt | acaatttcac | acngattttt | 300 |
| tatgcaaate | cacttgccaa | gttggnataa | ctgacttatt | ttaccgggaa | ntctccatgt | 360 |
| atcttctttg | gacacttacc | cttacagagc | ccaggatgaa | ttttgaccaa | gccaagtatt | 420 |
| cacacagccc | aatgtgacat | gttaccacaa | attgnggatt | ttccttcagt | acactcaaatt | 480 |
| gacacaagct | ttttctcgat | gtctttcttg | tcattcacta | ccaggatgaa | attaatttta | 540 |
| tcttctgagg | angcaatata | cgatccaccc | aggaaaattc | actttagatc | ttcgttctca | 600 |
| tttcttgcca | aacagaattt | gagctgaatt | tctcttagaa | aaatctgtcn | ttcagaaact | 660 |
| taaattcttg | ctgttccata | acagaagtca | gcaagtgact | caccctccag | atacagggtat | 720 |
| attacctcca | ctcccatcca | cagagactta | attctagtca | gcttcatgat | agtgagcctt | 780 |
| catccgtaag | gagctgtatg | gtatgggaag | gggatacaga | cagggccagg | gggtgtttta | 840 |
| aacggtaacc | cagggaccac | atccattaaa | aacactggac | tgtttgtgag | agtgtatatt | 900 |
| cctgagcatt | gcctatccct | taaggtaacta | caaaatttgg | gagtgaggct | cagcaaacta | 960 |
| ttttaacatg | cctctccacc | aacnactcaa | gattcccgtg | nacagttgaa | agtttncacc | 1020 |
| aaagggtgggc | aagctaaaga | gat | | | | 1043 |

<210> 89

<211> 454

<212> DNA

<213> Rattus norvegicus

<400> 89

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aattcatccc | tcatttgccc | tgctagtga | aactatttca | gacctgaaga | caacatcctt | 60 |
| gaaaacttct | ctggagaatg | tgcagagatc | accatggcaa | cctgtcccgg | gccctgcctg | 120 |
| gcagggctcc | aaggcacaca | aataacgcca | ctggaatgtg | gtgcagggct | ccgggtgggg | 180 |
| tgactagaaa | agctgccaat | tttccatgaa | aaccaccggt | gagaagcctc | agcctcagga | 240 |
| aggtgtcagt | agagagggct | gggttctctc | tagcaccaag | ggacaggctg | tgcgcaagca | 300 |
| tgcgcagaag | cacactcacc | ggcctccttt | ggggcagggc | tgcttgaaat | gaaccggctt | 360 |
| cagttttgtg | cagctcaagg | gcacaaggnt | agtgcctttt | ncttggnent | gaggcactnn | 420 |
| taaatgtagg | ttgggcgcgc | taanaaagat | ccnt | | | 454 |

<210> 90

<211> 873

<212> DNA

<213> Rattus norvegicus

<400> 90

| | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|-----|
| gttggtattc | aatcatccac | atTTgtaaaa | acacacttcg | ggtcctcctt | gtgtcnggca | 60 |
| gtaccatcca | ttgagtttca | ggaagcagaa | gttttaaaaag | ctnccagcan | cnttttaaatc | 120 |
| cacagctcaa | gttggtgaac | accttgggaa | actaccactt | attcaccag | aggagagttg | 180 |
| attcaagtag | ttagtacctt | tnntgcatcag | aanccaccag | ntactgccgg | tgagagtcgg | 240 |
| taatnccang | aactcatcca | tgcaggcaaa | tttaaggaca | cacggcttga | cacagagatg | 300 |
| gttanatcgg | ctgtgacagt | tcttttagtg | gagacttttg | ctttctgaat | ccacagggct | 360 |
| tactttcttt | ctttttcttt | ttaagacaag | ctctcatttt | catcttgaga | aaatgtctga | 420 |
| tcaagccacc | aactgaaaac | ctgccattat | aaacgaggga | tttcacaatg | ctcattccaa | 480 |
| aatctgcggc | tattcatttc | tgggaagtga | tcactgagga | aggacggctg | ttgggggtgg | 540 |
| gagggagaga | tcatttttag | gagaccgcct | gctctctgag | aactgagcag | aaaccccaga | 600 |

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gtggctagca | cgtgtgtgca | gcgaccccag | ctcagctctc | tgagtcaccc | cctccccccag | 660 |
| atgacacgcc | atgaccagtc | tcctcgtgaa | agccacttgg | tggacaaaaa | gcccttttggg | 720 |
| ctgtgcaccc | agcctcacat | ctgcctctct | gggggctatt | ttcacataaa | tcaggaggga | 780 |
| ggcagcagca | gttgcccacc | tgttttngac | tccgattgct | tggggantga | aggactttnt | 840 |
| naatgtaggt | ttgggnengc | tnaaaagatc | cnt | | | 873 |

<210> 91

<211> 876

<212> DNA

<213> Rattus norvegicus

<400> 91

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|-----|
| gttgttattc | aatcaattct | gttgcttttg | nccangtcaa | acagcccatc | cgggatgtga | 60 |
| ntatnggaac | taacccattt | atcctacagc | caggaggaaa | ccaangggga | ggctgaggaa | 120 |
| acggctgtgg | nttcataaaa | ctctttgaat | cataccttgg | gtgattcaaa | tgctttttac | 180 |
| taggctctcc | ttcatagtac | ctctctgtgg | acaaagaccc | agtccctttg | aaaagcattg | 240 |
| aaactcaaac | cataccacta | tcagtttcag | ctttaatata | aattagcttt | ctaagtccag | 300 |
| ctgaccacct | tttcaactgga | ccttcactna | tctcacaggg | aagatatatt | ttcaacaatt | 360 |
| acaaagacat | ttctggggtg | gactatgcat | tcctttggcc | agattctaca | tccttttttt | 420 |
| atgccagaat | tttttagcgt | tcctgtaaga | ttgtcagttt | cccctaggaa | atccataaag | 480 |
| ctttaaatgc | cttctaaata | gccaatatatt | taatgagaaa | tgtagtcact | gatatctctt | 540 |
| tgtattttaa | ggttattttg | aggggagttg | cttggttggt | tgggtgggtg | gttggttggt | 600 |
| tggttagttg | gttggttttg | gctttgggtt | tctgtcccat | ggtaatatga | tacttatgtc | 660 |
| atagattagt | taactcaaat | ggtcttttca | ggtggcagtc | ttgaaaacaa | ctaacttggg | 720 |
| gggaaaaagg | ctgctccatg | ttctataaaa | gctgtacatg | tgattttctc | tgctttacct | 780 |
| tttataactca | tttattttgt | tatttntgta | tgaaagccct | tccgtcctga | aagaccttta | 840 |
| cctgtaggtt | tggnccgtn | aaaagatcnc | tgggcc | | | 876 |

<210> 92

<211> 459

<212> DNA

<213> Rattus norvegicus

<400> 92

| | | | | | | |
|-------------|------------|-------------|------------|------------|-------------|-----|
| aattcagaag | gatctcagaa | attgaaagca | tgtgcaaaga | taaagatttg | gggtagtagn | 60 |
| agtgggtcaaa | agggacaagg | taataatggg | aatatgcttt | tgtgtatgtg | ttctttttaga | 120 |
| gttatgttaa | aatctagaga | agcaaagtcg | attctcatag | atgcttttag | tctttggacc | 180 |
| ctgactagag | acagtttaca | ccctagacaa | gagagagaat | ggggttgagt | aaaacagtcc | 240 |
| tcccgaactc | tccacagatg | ctttggcaaa | agaaggaaat | gagcttaaac | tttttggagc | 300 |
| tctcctggga | acagaaggag | gtgggagacg | tcttgccctc | ttgctggctc | ctattggaga | 360 |
| agtgcttatt | tctggttntg | ggtttttttag | gtngnttgct | tgggttcctn | gggncctgag | 420 |
| ggcacttnna | aatgtaggtn | tggcgcgcta | aaaangatc | | | 459 |

<210> 93

<211> 3133

<212> DNA

<213> Rattus norvegicus

<400> 93

| | | | | | | |
|------------|------------|-------------|-------------|------------|------------|-----|
| accacacnc | cnancnacac | ccacacacca | anccacaccc | acacaccaa | ccacacccac | 60 |
| acaccaaacc | acacccacac | accaaaccac | accacacac | caaaccacac | ccacacaccc | 120 |
| gagtgtggtg | tgtcctcctc | actgagtgtc | agccagccct | ttcctctact | tcaggtaaag | 180 |
| gtttctccac | tgcctcactg | tgtccctgtc | acatgggcac | aaagccatct | cagcagtcct | 240 |
| tctcaaggac | gtgggtgcca | ggttttggaag | ctggaatgcc | tacatctaaa | atcttggcca | 300 |
| tgacttgtga | caacttacat | atacatagac | atatatacat | atacagctta | catagacgca | 360 |
| gagcctcaga | ctcctctgaa | gaacggggtg | attctgtgct | ctgcagagat | gctgggagag | 420 |
| tgtataaaaa | ggtaagaaa | gcaggcttag | aaagaagggc | aactctacct | agtgtctcct | 480 |
| tacaattttg | ttttacgtcc | tcttctgccc | acagagccct | taagacactc | cctactttct | 540 |
| gcatcattcc | tgggtgtctg | taggaacaag | ttagtgaatg | atcactctgt | aaacacatac | 600 |
| ctacaggtec | tccttacctt | gggctctgga | acacccgggtg | aagtctgtgg | gtaggagggt | 660 |
| ctggctgagg | ttgagtgtat | caagtaatca | actggcagta | ccctntgggg | agtggcctgt | 720 |

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ggtttcctgc | tccccctcttt | gggtgagaaa | tcctaggggtg | gtgggagcca | aggcttaggc | 780 |
| aaaggttcag | gcacagcagg | gtgtgggagg | gagtgagact | atagtagagg | tgagtggaag | 840 |
| gtatggattc | gaagactttc | ggattaaaaa | aaaagcaaaa | aaaaaaaaaa | aaaaaaaaacc | 900 |
| aaaaacccaaa | acaaaacaaa | aaacccaaaaa | acaaaacggg | ccaaccagtg | agatgtggct | 960 |
| tgctctgagt | tgctaattat | gcagggctta | gatctcaaaa | acagtctgtg | ctctggggcc | 1020 |
| actgctgaca | tccaagtcag | gcccagaagc | tcttggtctt | catctttcct | ttccctctca | 1080 |
| ggctgcttga | agctgattga | ggatttcctt | gcttggtcag | ccggttcntg | atgggtctcn | 1140 |
| tgctctctcc | agttctctcc | atgtttcttt | tgctttgaag | tacaaaggaa | tacagttgca | 1200 |
| gggggttacat | ggcactcccn | tattcacttt | tagggttacc | acaaaagctt | gtgattcttt | 1260 |
| ccctcnttag | gactgagctt | ctacccccgc | acacaggcct | aactttgggt | tccccacca | 1320 |
| taatggggca | cccacccccca | ccnccgcccc | acccaccccc | aagaaaaaga | aaaaagaaaa | 1380 |
| agaaagaaat | gaaacggcca | gctgggtctt | acccactttg | ggcagcaggt | gtttcctccc | 1440 |
| tagcttccct | tttgcatctc | atacttggtg | cttgacacacc | ctcacccctc | tcttgctgcc | 1500 |
| tttttcaaat | taatagcctg | caacttccct | tgcatataga | gaatgggtcc | caggttctta | 1560 |
| ctgggattag | tgaacgctct | ttttgttgag | gaaatgcttt | taacaccacc | aagtgtgtga | 1620 |
| cccctcaaag | ttgggtgaagc | tctagattca | ntgggctgta | caagggacac | ttgggaaaaa | 1680 |
| tttgaacagg | acaagcctga | gggtgtgagt | gggggtggct | catctacaca | ggagctgcga | 1740 |
| ntgagagggga | aagggccccc | aaacatcttt | gctaccactg | ccttcttaag | tttggggact | 1800 |
| tggaaatccc | gttggtttaga | tcttgaccgt | aatcaggagt | cagcgtagag | gaggccccgg | 1860 |
| aaggagggcc | cagcgcggat | tcgcccgcgg | cagggcgggg | accaacagag | ggccntcggg | 1920 |
| gatagggggag | cgccgccccg | ccntcccggg | gaaggacaca | ttgcttggtta | gcaggaagcc | 1980 |
| agccagaccc | ggaggaggcc | gctccagcgt | tggtgttgcc | ggtccggggc | tagcctgatc | 2040 |
| cgggcagggg | gagttgagac | gatcgggtga | gcttgggccg | gggacgccag | cgtcttcagt | 2100 |
| cctggggatt | gtcccaggag | ggcaaggagc | ttggaggagg | gaggccgcac | agctagggga | 2160 |
| gtcaggtctg | agteccgagt | gtgctctaaa | gccggggcgg | tgagagtggc | ggcccgcgcc | 2220 |
| gggccgcgca | gcnngcagtc | tccccgcgt | gggaagtgg | aacttaacgc | acagccacag | 2280 |
| gattccccgc | cttttagctgc | tggaggggagg | gtggcttctc | ccggaggagt | ctgttgtgaa | 2340 |
| actcggttgg | agggcacccgt | gggtgcgggc | aaggagagaga | tggggctgcc | ctgaagaagt | 2400 |
| ggggggctgg | agtagaaagt | ggactttgtg | caaacctcac | cccagagtag | ttagttacca | 2460 |
| aggctggttt | tttttttttt | ttttttttgc | tcagacacaa | ggaaaatttg | actcaatggt | 2520 |
| aaaatatgta | atttggcagg | aaaacttttt | tcctagcctc | cttgctaata | tagttggaac | 2580 |
| agggggctcc | caagagggtat | agagtccccc | attttataaa | atgtgggttca | gtgggactgt | 2640 |
| ggcccaccca | gtcgtgtatc | catggaagag | tggcttttat | ggagaagttc | attttcctta | 2700 |
| accttaaaaa | ctgtaaagga | tcttggtgctt | gagaatattg | ttggccagct | ttatagtctt | 2760 |
| cattttataaa | actattttaga | ctagagtgtt | atagattata | ggtcttcaag | tttccagtca | 2820 |
| ccagtccttg | gcttttttagt | atggaaatca | ccagtaatgg | caatataaca | tccctgcttc | 2880 |
| tgttttcttag | aaggctaaat | tacagtgtgt | tcaaactccg | tgtcattgca | acaggttaaa | 2940 |
| ctaactttat | acgtaggaca | tcagggtatt | gacattctca | tcctaaagtc | agtttgtctg | 3000 |
| tttccagagg | aggaactgaa | gcagtgggtc | tttaagtaac | tgactcaggg | ctttcctgcc | 3060 |
| tggcgcgcct | gccaggcata | gtgtagcatt | gtactgcac | ttctttgacc | agtttcccca | 3120 |
| ggtgaagagc | ctg | | | | | 3133 |

<210> 94

<211> 2161

<212> DNA

<213> Rattus norvegicus

<400> 94

| | | | | | | |
|------------|-------------|------------|------------|-------------|-------------|-----|
| ctggaagctc | ccttctcccc | tgtactctac | tctgcaaate | cctgcagggtg | gacactgaga | 60 |
| gaagccacac | acacctgttt | ttgttttcca | tctctgaggg | atctgccatc | tactgtacat | 120 |
| gcagtttctg | aaaacatttg | tttggcgggt | ttctatttgt | ttactaagtt | agttcagttt | 180 |
| tcatcagtg | cacaaactag | aagtcattca | tatgagtaaa | atgtgttaaa | acgtcttcat | 240 |
| aaagttttca | gtttgcgagg | agcatacaag | gaaagggctg | cttaagtggg | aaggagagcag | 300 |
| gctctgtggc | tttctcattc | taacccttgt | ttgttcctgt | gaggtgtgga | gccctgctct | 360 |
| gctgctgtct | ggacagagca | gagatccttg | cagcagccac | agctctttac | tgagatgtg | 420 |
| ttctgggggc | ctgggttctga | ctccttcagc | tcctggtagt | gccctgcgtg | ataataacag | 480 |
| cctcctgctc | ccagctccag | acagctcgtc | tttctgttgc | agcagcactg | tgaacaccag | 540 |

| | | | | | | |
|-------------|------------|-------------|------------|-------------|-------------|------|
| agtgattctg | agcttagatt | caagatgacc | tcacacttat | gggaatcctg | tgcgtaggacg | 600 |
| tgttgcttsc | tgtttttact | gcccavgatc | ttccagctga | atgccagagt | gttgagtgtg | 660 |
| cccarcctgg | ggtarcccag | cttgctccac | caccctctgt | ggatactcca | cccagtctgc | 720 |
| tgttaccagg | cactggccca | gtgaaaatct | aaaggtttta | ttgttttagta | gaaaattaaa | 780 |
| acacttacta | cagtttgaat | gtgttgacaca | ttatgggttg | aggccaaagg | aaggtaggca | 840 |
| gaaggaaaac | aggaggcaag | gaggggaaga | aagctggaga | gtctggctgg | agggcgatgc | 900 |
| cctcctgggt | ctgaaagagc | cacacccctc | tgctgccagt | tacaggccga | tctgctgctt | 960 |
| agcaccaccc | tgatgtgctc | cagcatctcc | cgttccagcg | tggtttctgg | tcgraccttt | 1020 |
| attccacggg | tacttgaggg | gtgtgtgtgc | gtgcgtgtgt | gtgtgtgtgt | gtgtgtgtgt | 1080 |
| gtgtgtgtgt | gtgtacatgt | ctgtgtcccc | atgccacagc | acttgtggag | gtcagaggac | 1140 |
| aaaggacact | aaattgcttc | tccctttcca | tcacgtgggt | ccctcaagct | tggatcttga | 1200 |
| aaacgttact | tctagtgtaa | ttgtcctaaa | agttcacgtg | gactttaagt | ctcttgttta | 1260 |
| aagtctgtag | gcagttctgt | tcccgcagca | cagttcctca | caaagccctc | tgatggctga | 1320 |
| ttctttgctc | ttggangcac | aaggctgtgc | cgtgcttaag | acaggctgca | cagcttarga | 1380 |
| cttgactga | gggcgttctc | gcctgggttg | ctcarcatct | ggagtatat | ggatcatggcg | 1440 |
| agtcagggct | cagctctcgg | tatttatctt | tcagtgcatt | gatgtatttg | cccttacaga | 1500 |
| cactgtacct | gaattattta | acactgtaat | gctagtgcct | gatactgaat | tcatgactat | 1560 |
| aagttcanar | ctgcaracac | agccttaggt | gttaaacagt | atatttttaa | gagcttcaag | 1620 |
| tgacacagaac | agtaggggtg | cagttttgac | cccctaggtc | tggactttga | ggttgcatct | 1680 |
| catgaatgca | gctctgagct | gggggcgcca | tactctacat | tgtaaagtaa | tgacacctct | 1740 |
| aactacctgc | catggtagca | agctccagcc | acctgaaaag | cagccagccc | tcttggggca | 1800 |
| gcactgcatg | aggaagcctg | aaccccagca | aaggagcatt | gggctgctat | gtctgttctg | 1860 |
| ctacagcgac | aaatcccagt | gtgcacttgc | caacagctgg | aggcatgcca | tagccagggt | 1920 |
| ttcagcatgg | ctgcccttgg | agagaggcgt | gcgctgtgtg | tgtgtgtgtg | tgtgtgtgtg | 1980 |
| tgtgtgtgtg | tgtgtgtgtg | tgttagaata | agcaactact | gacaaattca | rgarcataaa | 2040 |
| cattatggaa | atTTTTTTgt | gtatgtcatc | atTTTaatTT | taaaagatgc | cttattttct | 2100 |
| cctcttggaa | ctaaagagat | tatatttcac | tttataaaga | aaaaaaaaaa | aaaaaaaaaa | 2160 |
| a | | | | | | 2161 |

<210> 95

<211> 824

<212> DNA

<213> Rattus norvegicus

<400> 95

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| gggggntttt | cnnanntanc | aaaaantngn | tntancannng | antnnttgag | ntggtgaagn | 60 |
| aangnggaaa | angttttgaa | atcantgtaa | tgaggttcca | aaaattgagc | aggaaattgg | 120 |
| atgntgtcag | gagaaaccn | ttcagntttg | tgcaattggg | tcgccagcag | ttaggaccgn | 180 |
| ttccccatca | cttgtgccag | cggacatcca | gntattgagc | cntgnatcat | ttatggnaca | 240 |
| aattaggaac | acacaacaga | gatccgcttt | ntgactgcca | tggtcgccaa | actcaattgg | 300 |
| gggaagtaat | cctccagacc | gttccgtttg | cagctntagg | aagccacagt | gaaaacacaa | 360 |
| aattcgtgga | ggcgactcta | accaggaagc | ctaattccnt | agattcccgg | gacactgggg | 420 |
| caggcgtcct | aaaaacagct | ttgtggggct | tcagtcctcc | gtgcgggttc | agtccgggtc | 480 |
| ttggggatcg | ccctcgcggg | gaatgtccgg | gactccggtc | ggatatcttt | tggcctggga | 540 |
| atttccagcg | tgtggaaaaa | gtccacaaac | ttagtccctca | ctgcccgcct | cgcctcctcc | 600 |
| ggcccttctc | ggtgcccacg | caccccccca | tcgaacccga | ggatgagcat | aggggtgtatt | 660 |
| ttaggcgtgc | tgggcttccc | cgccccctc | tgcccactta | gctggcaaga | agaaagccag | 720 |
| cactataaag | gaggccaggg | ccaaggactg | gcctcctctt | gctcacgagg | tcagacgcga | 780 |
| gctctgaaag | acttcacctg | taggtttggc | aagctgaaga | gatc | | 824 |

<210> 96

<211> 774

<212> DNA

<213> Rattus norvegicus

<400> 96

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| gagggganna | ncancaggac | caancngata | aggggggtcaa | caacntgngt | tcnccccntt | 60 |
| gagngggaaa | tgagcacgng | gcantccaac | cgntcaaggt | cccgnnttcgg | acggtcacac | 120 |
| antaggttnt | catntggatt | gccngngttc | cngttggcat | ccgggaaaaa | tgagactgtg | 180 |

| | | | | | | |
|-------------|------------|-------------|------------|------------|-------------|-----|
| tcggtaccag | agntaggatg | gccntccttc | ccngccccgg | ccttnttggc | gccttgcgat | 240 |
| ccttccccgaa | ccggcccntg | gcgtctccgc | cttnggcact | tgcacatntg | gcggcccagg | 300 |
| atggcgcttc | cgggatggcg | ccagcgcgcg | tacgtcatca | cggagcgccc | atgtgttcc | 360 |
| tctgtccaag | cgcntagtag | cctgcgcgta | ctcccagcaa | ggaagatgta | ggacccaaaat | 420 |
| gtagaagcac | ttaacatgaa | cgtcaaaaacg | atgaccaatc | acagggcgat | atatgcgcat | 480 |
| gcgcaatgtt | ccaatcatgg | ctcataagca | atccggaagt | ggccaattaa | atatactatt | 540 |
| tactaatcca | gggttacaca | gtgaaaccct | gtctcgaaaa | ataaacacag | ggctggagag | 600 |
| atggctcact | gattaagaac | actgactgct | cttccagaag | tcttgagttc | aattccgagc | 660 |
| aagcacatgg | tggctcacia | ccatctgtaa | cagattctgg | tttatgtnga | gacaactaca | 720 |
| gtgtactcgt | attgaaagnt | ncccacctgt | aggttnggca | agctaaanga | gatc | 774 |

<210> 97

<211> 248

<212> DNA

<213> Rattus norvegicus

<400> 97

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| tgacacttca | tggaaactga | gaccggggagc | ttccaccaga | aggcactgcc | cagtggagaa | 60 |
| aaccgacttc | tttttgttgt | tgttctgatg | ttttgttttt | gagataaagg | tctcactgtg | 120 |
| tagctcaggc | tggttttgaa | atcaggatcc | tgaccctcag | gaatgttaaa | gtgcctaaaa | 180 |
| gtggngacaa | attattttac | gtgcctttga | aagacttcac | ctgtaggtn | ggcnagctag | 240 |
| aagagatc | | | | | | 248 |

<210> 98

<211> 880

<212> DNA

<213> Rattus norvegicus

<400> 98

| | | | | | | |
|------------|------------|-------------|-------------|-------------|-------------|-----|
| aanatggntt | ggttntaaag | gttaaaattg | gggcaaaatt | tttccgcccc | ggtccttaaa | 60 |
| ccggattaac | tccaaggcca | aaattccgag | ggggaatcaa | caacaaggac | ccaaccggat | 120 |
| taaggcggtt | tcaaacaac | ttggatttcc | ngccctttgg | ggcgggggaa | atgggcacgg | 180 |
| gngcattcca | agcngntcaa | ggttccggct | tgcggacggt | taacacaant | aggtttctca | 240 |
| tctagattgg | ccngcggttc | ggttgagcat | ccgggaaaat | tgagattgtg | tcggtaccag | 300 |
| aggtaggatg | ggccttcctt | cccngccccg | gcttcctggc | gccttgcnat | ccttccccgaa | 360 |
| ccggcccttg | ggtctccggc | cttggggcact | tgcacatctg | gcggccaggga | tgcgcttccg | 420 |
| ggatggcgcc | agcgcgcgta | cgtcatcacg | gagcgctccat | gtgttctntt | tgtccaagcg | 480 |
| cttaggagcc | tgcgcgtact | cccagcaagg | aagatgtagg | acaaaaatgt | agaagcactt | 540 |
| aacatgaacg | tcaaaacgat | gaccaatcac | agggcgatat | atgcgcatgc | gcaatgttcc | 600 |
| aatcatggct | cataagcaat | ccggaagtgg | ccaattaaat | atactattta | ctaateccagg | 660 |
| gttacacagt | gaaaccctgt | ctcgaaaaat | aaacacaggg | ctggagagat | ggctcactga | 720 |
| ttaagaacac | tgactgctct | tccagaagtc | ttgagttcaa | ttccgagcaa | gcacatgggtg | 780 |
| gctcacaacc | atctgtaaca | gattctgggt | tatctgggnt | cnactacagt | gtannngcat | 840 |
| tgaaagatnn | tacctgtagg | ttggncagct | aaaaaggatc | | | 880 |

<210> 99

<211> 864

<212> DNA

<213> Rattus norvegicus

<400> 99

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| aatttttaant | tggttgnata | anggcttgnc | catatccttc | ctnttggttg | ccctaagtaa | 60 |
| cagccaattg | ggggagaant | ttntgtcag | tatcatattt | ttcgtagggg | aacggaggcn | 120 |
| caggaantga | tccntntggg | ttacagtcac | tttagcatag | gntgacagtt | ggngaccaan | 180 |
| tnatcttgcc | gtgttggaag | gagaggggan | taaggntgaa | gctcttgagt | ccnttgangc | 240 |
| ccttgggaatc | gggaantccc | ttaaaccaac | ccctttttg | ggtgaattgc | accaaccaga | 300 |
| ttcttccagt | ctgcttgagg | angacaggac | ttcattgctn | tggagagggg | caggagggtt | 360 |
| gggagttgac | ntnacagggc | tcagggattc | ttttagaagg | gtccagggtt | atggcttccc | 420 |
| ccccccccag | ccaggtcaga | cactaaagtg | tcttaagccc | ctccatactt | gccgctcccc | 480 |
| cacnttgat | gaagccggcc | attaggcagg | gaccgtctct | gggagaggcc | aagccctctg | 540 |
| gctcacttgt | ggatttcctt | taagcaagac | ttcctctctg | cttccaggac | tcctgtcaaa | 600 |

| | | | | | | |
|-------------|-------------|------------|-------------|------------|------------|-----|
| caagaggggtc | cctgggcttag | agtttgggag | ctgcagggcag | aacagacatt | ccccgatgac | 660 |
| tcacaagcct | ggaactctgt | gggccagcag | gaatggggat | ggctttcttg | tcagtcaggg | 720 |
| tcaactggga | cactcactct | gagacagggg | ggcaagggag | aaacaggtca | gaggtagaga | 780 |
| gagctcagtc | ccagggactc | acgttgaggt | ccctaaggtg | cgctagggag | aggnttttac | 840 |
| attcggttng | gcaagctaaa | agag | | | | 864 |

<210> 100

<211> 874

<212> DNA

<213> Rattus norvegicus

<400> 100

| | | | | | | |
|-------------|------------|-------------|-------------|------------|------------|-----|
| gaggttggac | cacaaggagn | ttggnggaaa | atnnaaaagt | caacctatca | gggtgtcttt | 60 |
| tagtttggaa | cagaggcttg | ggcagaaaata | tgggcaagta | ttaggaaagt | acaaggggaa | 120 |
| atgttgtcaa | cgcgnttggt | ttcccagttg | ttgnactgat | ccnccagga | tgttttccca | 180 |
| cntatgntat | ggaaccntct | ctttcaggaa | gccattntna | ncntatggnt | tgcaaccctt | 240 |
| ttgggggtcgc | aacagcaggt | attaacatta | ggattcataa | cgntagcaaa | atnacagtta | 300 |
| tggagtagca | atgaaataac | tctatgnttg | ggaggggtcac | cacaacanga | gggacgggat | 360 |
| cacaggnttt | tagcattagg | aaggttgagg | accttatttc | agagtgtcnt | gacaatcntt | 420 |
| cntgggacca | cttgacttna | tctggagccc | tttccctcac | gctentactc | cttaccatct | 480 |
| ctgcacagct | ctntgaggct | tagagcggtc | tttcttcata | gctttcctnt | ttccttcagg | 540 |
| tatgcagtca | catcttgctt | tagaccccag | ggacattccg | tgtctgactc | actgcacaaa | 600 |
| atagtttccc | acatatgagt | cctcaaccgc | cccacatcac | gagacggaca | agaccggaga | 660 |
| cgccatacat | tctgtatttg | ccctccttcc | tcatttaaat | aggaatttgt | tgctgtttta | 720 |
| tttttccatta | tttgtgtgtg | tgtgtgtgtg | tgtgtgtgtg | tgtgtgtgtg | tgtgtgtgtg | 780 |
| tgcgcgcgca | cgtaatatg | ccgctcagaa | tagtctaaaa | ctgctgggct | tgaaagacnt | 840 |
| ncacctgtag | gtttgggcna | gctaaaagag | tatc | | | 874 |

<210> 101

<211> 886

<212> DNA

<213> Rattus norvegicus

<400> 101

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| atttttnaat | tgcagcaatc | ctcctgcctt | ttttcttggt | tgttaantca | caggatnttt | 60 |
| gcacacttga | ggttgaantt | gcagcaatcc | tcctgctttt | gtttnttggg | cgcttggatt | 120 |
| atagtatgtg | cataacactt | gagcagtaac | tgttttcttc | aatctcattt | atctcagaag | 180 |
| ttccccttgn | tgattcagac | gttattaatt | aggcaaacca | atgttgattg | tcattaccca | 240 |
| tgagttgctt | ggcttgtgag | atgcatactg | tgtgttcgtg | aggcacntac | tgtgaggcat | 300 |
| gtgcccgtga | ggttcatggc | tgtgaggtgt | gtgcccgtga | ggttcatggc | tttctngacc | 360 |
| acngggagta | tgaaggagag | gaatcctacg | tttgatgcc | gccaggggta | tacagcaaga | 420 |
| tcccgtctca | aaacaaaatg | aagaagtaga | gagattagtg | ttaataagca | actgaggcct | 480 |
| tgaagggtcg | aggtcaggcg | gtgccctggg | gcacacacag | aagcgtgcc | gtgacgtcag | 540 |
| acagactcag | ccctgtgtca | gacaggccgg | agggtgactg | gccatgtggc | gtgattggac | 600 |
| acattcccaa | aaaaggaact | cgatggaaga | ggctcctcnt | gctccagaca | gggcgggtgg | 660 |
| tatgtgactt | gtgcgagatt | agtctcatat | cctattgcta | gcctgtgcct | ggtaccacgg | 720 |
| acatgggtaca | atccagggag | gagccgtaag | cactacaggg | gagccatcct | gaatcccagc | 780 |
| aagtccaact | tctgtttttt | cttccttccc | cgcaacatta | ggaatgactt | ctaagagngc | 840 |
| tgttgaaaga | ctttcacctg | taggttgggc | aagcttaaaa | gaggat | | 886 |

<210> 102

<211> 865

<212> DNA

<213> Rattus norvegicus

<400> 102

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tggaggtaaa | agtcacaagn | ttttcaaggg | tttgagatga | cagttcaacg | tgagnattng | 60 |
| acaaggattg | attcttgtnn | acaggaaagn | tcccatccc | accaananac | accgtgttca | 120 |
| ggcccantgc | tcagagctcc | gggcgccagc | gaagggcaaa | cgccactga | ttggaaagnt | 180 |
| gcagtttaaa | gacatgtccc | aggaactggg | anccttggtg | gactggactt | agccttgcaa | 240 |
| ntctgtctga | agcataacnt | gntgctgtct | ntgggcgagc | atztatgtgc | cccacttgag | 300 |

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| acccatctca | ggacacgcag | gacacgggtcc | agtggagctt | tccctccaga | gagaggtgtt | 360 |
| aggnccatc | agtgagcttc | caaggacagg | ggaccagaac | ggtgaaaaca | aaccagggct | 420 |
| gtgaaggaga | gcagggcggg | ggggggggga | ggggggggcg | tctntagaat | agattgaacc | 480 |
| tgcagagctg | cttgctacct | gaagttgtca | cccttttacc | cacccacntc | atctgtctct | 540 |
| gcttgaccat | ctcagcaagt | gtcacctcgc | tgccaggaca | caagtttcct | aaagcttatt | 600 |
| tcagtgtcag | ccgctgggga | gacacattca | gggcatgggc | gtcccccagc | cctcggggag | 660 |
| aatgtgggag | gtggcgatgt | gggagggatt | cgagagaaga | gaatgcttaa | gaaccatcca | 720 |
| gggaacctgt | gcgtttgaag | gtctgagtta | cacacaggct | gctcaggaag | gagctagagc | 780 |
| tccaaatagg | agctgtgatc | aggctgtgtg | tgtgtgcctg | gtgaaagact | ttnacctgta | 840 |
| ggtttgggcn | agcttgaaaa | gtatc | | | | 865 |

<210> 103

<211> 859

<212> DNA

<213> Rattus norvegicus

<400> 103

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| cangagcant | ntgaancagg | catttntgga | agggtccng | agaaaacacg | tggaattnct | 60 |
| tgtctctggg | acttttagtnc | cagcnaggan | gatncagtga | gggaacacac | cgggcttttg | 120 |
| ttgtgcacgg | gaggccaggc | tcancnncct | tgggagnttg | acatccagca | ggctatanac | 180 |
| agtgatccag | gggacatgta | cacatgggga | actgnccagg | cagagaaaga | caagagaaaa | 240 |
| tctcaaanga | tgaagacaga | gangagtaat | atggccagaa | ngatacagtg | cctcntgcat | 300 |
| aacccttgag | tttaatttcc | agggtcaact | gtattttgaa | agtataaatg | aaagttcctg | 360 |
| aagtaataaa | tttataggat | gttagtatca | cactgttcag | aatagctcaa | aaaatcctgc | 420 |
| cntgtcctct | taagtatgtg | aatcatcttt | tactgcaacg | tgtccacaat | gtatatacta | 480 |
| catacccaaa | agtcctcact | gttatcccaa | ttagtaggct | ggctgccaat | agttgtccat | 540 |
| acagagtgcc | tgctgctgtg | gccatccnta | ctgtagtaaa | cagtcatcca | aagctcagga | 600 |
| gtgaggctat | tgtagaaatg | cacttcctgg | gggccctact | gtcagtgagc | acctgagaga | 660 |
| gaaagggaca | caggcccaag | gtgggaggcc | ttagataaag | gcccacatg | ctcaggaaag | 720 |
| gatttntaca | gatctcttag | ggaagttaca | atcaaattca | tacctcacag | cagagctcag | 780 |
| gagaagaatc | cataaagnnt | gaagacatgc | ttgtngtgnc | tgaaggacnn | tacntgtagn | 840 |
| tngggccngc | tgaaatttt | | | | | 859 |

<210> 104

<211> 883

<212> DNA

<213> Rattus norvegicus

<400> 104

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|-----|
| gggggggnnaa | naatttccca | aaaannngnng | gncccntttt | ttatccagtt | tnnggttgaa | 60 |
| natctcnccc | cggtttnaaa | accncaatg | gggaaaaagg | tacancngat | tntttatnng | 120 |
| tttgggcgga | gggggaaatt | tttttggttt | ttttntttnn | gggatttttg | aaaaaaaaan | 180 |
| gaanttttta | ggtttcccn | angtaattta | tttcaatgga | ccattttttg | ggttctccct | 240 |
| tttgtaanan | gttaaaaaana | agggantttcc | aannttnctt | ttcagtttcc | agtttcacct | 300 |
| tcngtagcag | accagtttt | catttttgagn | tggtncnnaa | aaggnttccc | aactatgttc | 360 |
| aataccacag | gcagcctgca | ggaggggagaa | tgggtatgta | tttaacagca | tttgacccaa | 420 |
| ttataagagc | agagaggagc | tttaccaggg | acaggaaggc | aaaagagctg | aatnttaaac | 480 |
| aaaagaataa | gaacaggatn | tcactctgtga | gctgtcacag | tgggtttgca | gagcaggaga | 540 |
| acacagacag | gattagctat | aaagttgtta | cattagttat | tntattggag | catacaatac | 600 |
| ttaaatagtt | ctagggcaag | agaaatgaac | agaaatgacc | ttataagagc | cagagctgta | 660 |
| gccacagctt | tctttgtgct | tagtttgnta | gttcantctt | tccagggcag | tctggtggat | 720 |
| nacaccaaat | tgcttttagaa | aatgctagnt | ctactgtccc | tgtctattgt | cagctttgca | 780 |
| atgtgcatag | tgacaggagt | tgccctgggag | cttggggctt | atgttttgca | gatccattgt | 840 |
| aattaaaaaa | gaattgtgaa | gagatggagg | cacggggtga | ggg | | 883 |

<210> 105

<211> 987

<212> DNA

<213> Rattus norvegicus

<400> 105

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| canntttccc | ntancegaaa | ntttnttttt | ggcccaaccn | gtaagacgga | tttttttncaa | 60 |
| ttgcggancc | aatggaaccg | gtttgccggg | nngtnttttg | gggtgaacgg | ttntttaant | 120 |
| ggngccaaan | aaggtnnatt | ggaggnenta | tttgaattgg | tntgtaaanc | nttncttgg | 180 |
| aaaaggnttg | tagcnttaan | ccggcaacaa | accaccggtt | gtacgggtgtt | tttttggtgc | 240 |
| agccgcagnt | tangggcaga | aaaagaattc | aggagatcct | taancttttt | nttcgggntc | 300 |
| tgacgctcat | gttgtgtgga | ttnttgagcg | gttacenttt | nacacggaat | tctattcact | 360 |
| ggcatgactc | acttcccccg | gttcatgagt | cagcagtgag | ttatctaggt | atgtgttttg | 420 |
| tgttgcaaat | tcccatatat | agaatatggg | cccggggacc | atagaaagtt | gagcagttgg | 480 |
| gcaaaattct | tccccaggag | gtgtgttcaa | gagaagaggt | tcagcccttg | aaagagcttc | 540 |
| cgtttctatc | ntcacaaaca | tcntgaaaaa | taggctaaat | gttattctgt | gaagagtcac | 600 |
| tactggtttt | actgatgggt | gaagtctctc | gactgtctag | aaaggtaatt | ttaaaacgta | 660 |
| agaaaattag | accctgtgcc | ccagatctgt | tggtgttgag | aatctcttag | aaacttgagc | 720 |
| aggaggaagt | acaagaaagt | atgtagctat | tgtaatccct | ttcaggaagg | atgtgtttta | 780 |
| agctctattg | ttagggcctt | tcgcttgcac | tgtgaagtaa | ttttttactt | tttataagct | 840 |
| taaaggatgg | cttaataaga | cgtcttagaa | atgtccacat | tatattggat | caacaaacgc | 900 |
| caaagcatca | gtttgcgtca | ggggccacgg | ggcatgggga | ctaacgggtc | attcttttgg | 960 |
| aatctggatg | cctaggtgca | gtagggc | | | | 987 |

<210> 106

<211> 1031

<212> DNA

<213> Rattus norvegicus

<400> 106

| | | | | | | |
|-------------|------------|------------|-------------|-------------|------------|------|
| agtcctgccc | centgggaag | ggtaaccttg | acctaacccc | cnaataantt | ncccttagga | 60 |
| ttgcttgcca | tggnttttac | gcgtaacctt | antaaaactt | tgangaaant | tccttccctt | 120 |
| tgattctage | aatgnaccgg | cattttgcca | atcnattcng | ctgnantaat | tatgaagtcc | 180 |
| cgttttaanc | aatttgaagt | ttaacattca | tgtatcttca | cagtcattgt | tttttggtga | 240 |
| tgatgaaacn | ccatgctgtc | ttgcnccatt | tgntcaggan | tgagtcattt | gtctagcntg | 300 |
| nccatgctgt | atatgctacc | natccatcag | ttattcatag | ccagcttggg | tgtngactaa | 360 |
| caacagtagt | ttcacantgc | tttgtgttaa | agtcaccttc | agtttattta | atgttggcac | 420 |
| caaagcacat | gntagtgtat | tcagcantgc | tgatatgcca | gggaaaagcc | attaggtatt | 480 |
| cctttatgtg | taaagggttg | aaattgttga | ttgaatgaag | ggaaaaatta | ttctgctgat | 540 |
| tgatgttggg | aagggcatta | gaggatcata | ttactagttt | ttgactaagc | tctgaagttt | 600 |
| gtacatgaat | ttatggatcc | tccttgcaat | agattcctga | tgctctctaa | catccatctt | 660 |
| ctcatatgac | atccttctgg | ccagatatct | agctttattt | tctctactct | gctgcaccac | 720 |
| tgctctgccc | tttggggatc | agtccccata | gaatggggagg | aaaacaatgg | cctccttaga | 780 |
| ccatgaatgg | ccttctctca | gtaccatgaa | gaatcggggc | atcttgctcag | agggaaattt | 840 |
| tccttacatc | ctcagtcact | gtttctgtca | ccattataca | ttatatgttt | gcctaagagt | 900 |
| gaggggtgatt | tgtgtagtaa | ggaatgtatg | tgttggtgtg | gtagtttgga | tgagaacggc | 960 |
| cccccaaagc | tcatgtatct | gaatggntat | gaaagacntt | cacctgtagg | tttggcnagc | 1020 |
| tagaaagagg | a | | | | | 1031 |

<210> 107

<211> 1138

<212> DNA

<213> Rattus norvegicus

<400> 107

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| caancaccnc | ncggananga | ncccggnnga | anngagaccg | gnacanacacg | acgngancag | 60 |
| cgaagnanc | ncgnnnnngg | cncgncagag | cgnncgancc | cgacnanagn | acgncgccga | 120 |
| nangannnaa | nccggngnna | ncanncagnn | gggaaacagc | ccagagagat | aggacancaa | 180 |
| acnaganagn | acacancgng | acgagananc | ccgaaagnnn | nanacnnana | nanaannaag | 240 |
| agaanagnnc | aacnnnnnca | nnnngaccng | gaanagggnn | nnngaacngc | nancnncna | 300 |
| gnngcngnan | cnanacacga | cngaagagac | gnngcngaa | naganacncn | gaannngnaac | 360 |
| aagangnana | annngacagg | aancacnnag | nagggngngg | gcaagcgcaa | ngnnnganaa | 420 |
| nnnacaacag | aaaaagannc | anancanaag | ngncgagagn | annagaanna | gngaaanncg | 480 |
| nanncgcnc | gaagaagaac | gnnggacaaa | naccgacgna | ncnnnnncan | ngannaaanc | 540 |
| gcangnancn | gacnaggaac | gacngnaagn | gcnaagnnac | ganngncaga | nnanangaaa | 600 |

| | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|------|
| cacgnnnnan | acannnaccn | ancgcagcgg | nncaggaaag | nggngcnacn | gaggngngcc | 660 |
| aanaaganaa | nngngagann | acaaaaaaaa | nggnggncan | gcagnanaaa | accgagnncn | 720 |
| nnnnnannna | gaganagaac | gagannnang | nncgaannac | gcgnacaaga | anggggaannn | 780 |
| cgnangacgc | nncggaacaa | ngaccnnnnn | aaanncagnn | anccaacnag | gnaannnaga | 840 |
| nnnagnngcn | ccanngcaag | cncncacnaa | gaagaagana | ccccccccc | annangnagn | 900 |
| aagcncncnc | ngngaggnaa | cncgagaccc | cccngnaggc | agcancgcca | agngnagcgn | 960 |
| ncagagnacn | nanntaacag | accgaaggaa | nagccgnaaa | acaccaaana | cnagacnacn | 1020 |
| agcnagnccc | gcgcacnnng | gagnaancna | ccnnncnaang | acnganancg | nggnccncgc | 1080 |
| tnttnngttn | aacgcancnn | ggggcggccc | nngggaaacn | cnggggggaca | aaaggcgg | 1138 |

<210> 108

<211> 1072

<212> DNA

<213> Rattus norvegicus

<400> 108

| | | | | | | |
|-------------|------------|------------|------------|-------------|-------------|------|
| cccttnaant | gggnccccaa | ngggntccc | ccccaggggt | ccccccccc | cctaaantt | 60 |
| cctttntaac | ccagggttg | nnnnntggaa | tttttgaann | tggagntcn | nnngnaacat | 120 |
| tnccgggatt | tttgaggagt | ttgaatgacc | ggaattntac | tttttgggtt | ccggcnggca | 180 |
| ccccntccc | ccaaggttna | gngagttttg | aaggtaaaag | tcacaaggtt | tttaaagggt | 240 |
| ttgaggatga | cagttcaacg | tgaagatntt | gacaangatt | gattttttgta | nacaggaaaa | 300 |
| gntcccnatc | ccaaccaana | aaaccgtgtt | naggcccaat | gttcagagct | cngggcncca | 360 |
| gggaagggca | aacgccaat | tgattggaaa | gctgcagttt | aagacatgtc | ccaggaattg | 420 |
| gtaccttg | tgattggact | tanccttgca | actttgtttg | angcataact | tgntgtgtct | 480 |
| ttgggggagc | atttatgtgc | cccacttgag | acccatntca | ggacacgcag | gacacggtcc | 540 |
| cagtgaagctt | tccctccaga | gagaggtgnt | agggtccatc | agtgaagctnc | caaggacagg | 600 |
| ggaccagaac | gttgaaaaca | aaccaggggt | gtgaaggaga | gcaggggcggg | gggggggggga | 660 |
| ggggggggcgt | tctctagaat | agattgaacc | tgcagagctg | cntgctacct | gaagtgtgca | 720 |
| cccttttacc | caccacctc | atctgtctct | gcttgaccat | ctcagcaagt | gtcacctcgc | 780 |
| tgccaggaca | caagtttcct | aaagcttatt | tcagtgtcag | ccgctgggga | gacacattca | 840 |
| gggcatgggc | gtcccccagc | cctcggggag | aatgtgggag | gtggcgatgt | gggagggatt | 900 |
| cgagagaaga | gaatgcttaa | gaaccatcca | gggaacctgt | gcgtttgaag | gtctgagtta | 960 |
| cacacaggct | gctcagaagg | agctagagct | cccaaatagg | agctgtgatc | aggctgtgtg | 1020 |
| tgtgtgctgg | tgaaagactn | ccacctgtag | gtnggccaag | ctaaatgaga | tc | 1072 |

<210> 109

<211> 1094

<212> DNA

<213> Rattus norvegicus

<400> 109

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ggtttnnggt | ganatcctcc | caatgccnan | aanttccctt | ttttaagatt | ttttttttcc | 60 |
| gggaaaattn | taaaantttt | aactgggggtg | gnaaataata | aggntgtttn | tgggggttggc | 120 |
| ccaatttttg | nanttttagga | aaagttcctt | gggtnaattc | cagcnttgat | tggaggagca | 180 |
| attatnttgt | tanaantt | ggttgtgggg | atgcttggtta | aatcttttag | atgtttcccc | 240 |
| ttctgtctcc | cttttggaat | ggtcttaata | ggttgcnaaa | attntacntn | ttggatcagc | 300 |
| tttttnatna | gatttagccc | agtgtgctna | ncttgtgaga | ccnttttnac | agganttgtc | 360 |
| tggnccattt | gaaacacgta | tttatgtcan | gattcataac | agtnngcaaaa | atatagttat | 420 |
| gaagcagcaa | gaaaatcact | ttatgnttgg | aggtcaccac | aacatgagga | atgtattaan | 480 |
| cgcagtatta | gagagttcga | ganccactat | cttngaggat | gcgttagact | gatgtttccc | 540 |
| ttctcgcttg | gagttgacnt | tgccantaga | gggcaacagc | atcagtattg | ttcccagtc | 600 |
| ccntcacant | gattcgaact | ttaaggacac | tgatctctgg | ctggtagagg | gttcagcaca | 660 |
| cataccagag | ttacgagtca | cgtgccagaa | gggcaaactg | aacacggaat | tagaggggaa | 720 |
| tcgatgtctc | cggcttgac | tggtcttctc | ttgcactaga | atcnttcac | ntgctcccag | 780 |
| tccgggacgt | ccaggcaaca | agggcgtgga | aagtgagggg | gctgggaggt | gtgtttgcct | 840 |
| tgctcaggc | gctgggtggg | gttggggcgt | gccagcactc | cctggggcggg | cctcaccgat | 900 |
| gctggccact | ataaggccag | ccagactgcg | acacagtcca | tcccctcgac | cactcttttg | 960 |
| gcgcttcatt | gtcgagtgtg | gtgagctctc | actggggcgt | ccctctaaga | tctgtccact | 1020 |
| cctgggtttta | ggggttaagc | ctttcgtgcc | cctgaaagtt | nccacactgt | agtgggcaaa | 1080 |

gctaaaatga gatc 1094

<210> 110

<211> 1107

<212> DNA

<213> Rattus norvegicus

<400> 110

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| atctcattta | gcttggccca | cctacaggtg | gganactttc | aaacctgtgg | gagacccctt | 60 |
| tcacaggaat | tgcctgagac | catctgaaaa | cacagtattt | atgtcacgat | tcataacagt | 120 |
| agcaaaaata | tagttatgaa | gcagcaacga | aatcactttt | atggttggag | cgtcaccaca | 180 |
| acatgaagaa | tgtattaatc | cgcagtatta | gagaggtcga | gaaccactat | cttagaggat | 240 |
| gcggtagact | gactgcttcc | cctctcgctt | ggagttgacc | ttgccactag | agggcaacag | 300 |
| catcagtatt | gttcccagtc | cccctcacac | tgattcgaac | tttaaggaca | ctgatctctg | 360 |
| gctggtagan | ggttcagcac | acataccaga | gttacgagtc | acgtgccana | anggcaaact | 420 |
| gaacaccgaa | ttanagggaa | ctcnatgtct | ccggcttgca | ctggtcttct | cctgcactaa | 480 |
| aatccttcat | cctgctccca | ntccgggacg | tccaagcaac | aaaggcgtng | naanttaagg | 540 |
| ggctgggaag | tgtgtttgcc | ttgcctcaag | cgctgggtng | gggtttgggc | gtgccaacac | 600 |
| tccctgggcg | gggctcaacg | atgctggcac | tataaaggca | accagactgc | gacacaatcc | 660 |
| atccccctca | caatcctttg | gngcctcaat | gtcnacntgt | tgtgagctcn | cactggggng | 720 |
| tcccncaaaa | tttgtcactc | ctggctnaag | ggttaaaccn | ttcctgccna | tcaacctctg | 780 |
| cnggctcaat | ggtggaatgc | actggattca | aattttcggn | gccaaggaa | acaaggaaaa | 840 |
| ccagggctgc | tnggctgtnc | aaaaaaancc | cagggtaagg | gancccatgg | gngggaanct | 900 |
| aaacngcntt | tctnggggtc | aagaagggtt | tccccggggg | tgtnaacccc | ccccaatntt | 960 |
| tggccccctca | ggaggnttca | ngggaanccc | cattccttcc | ttgccaatca | aaagcccat | 1020 |
| ttccttgaan | ccngggggaa | nntttaaaac | ccnaancccc | tccattntta | accccccca | 1080 |
| atggnccngn | ngnaccnttg | nnntttg | | | | 1107 |

<210> 111

<211> 1069

<212> DNA

<213> Rattus norvegicus

<400> 111

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| aatttttttt | nccgnaaaaa | ttttnaaant | tttaantggg | ggggtaanna | nnaagggtgt | 60 |
| ttctgggntt | ggcccatttt | tgcacattag | gganagtntt | ttggggtaaa | nttccagcng | 120 |
| ttgattggag | gagcaagtga | tnttggtana | atztatgggt | gtgggggatg | ntgttaaaat | 180 |
| cttttaggat | tggttccctt | tntgtctccc | tttttgga | tggntcttan | ataggtggnt | 240 |
| caaaattcta | cntnttgga | tcagcntatn | tcatcaggat | ttagcccagt | gtgntnaacc | 300 |
| tgtggagacc | cntttcacag | ganttgcttg | agaccatttg | aaacacagta | tttatgtcan | 360 |
| gattcataac | agtagcaaaa | atatagtatt | gaagcagcaa | cgaaatcact | ttatggttgg | 420 |
| agcgtcacca | caacatgagg | aatgtattaa | tccgcagtat | tagagagggtc | gaganccact | 480 |
| atcttagagg | atgcggtaga | ctgattgctt | cccntcttcg | cttgaggattg | accttgccan | 540 |
| tagagggcaa | cagcatcagt | attgttccca | gtccccctca | cactgattcg | aactttaagg | 600 |
| acactgatct | ctggctggta | gagggttcag | cacacatacc | agagttacga | gtcacgtgcc | 660 |
| agaagggcaa | actgaacacg | gaattagagg | gaactcgatg | tctccggctt | gcaactggtct | 720 |
| tctcttgac | tagaatcctt | catcctgctc | ccagtccggg | acgtccaggc | aacaaggggcg | 780 |
| tggaaagtga | gggggctggg | aggtgtgttt | gccttgccctc | aggcgctggg | tgggggttggg | 840 |
| gcgtgccagc | actccctggg | cgggcctcac | cgatgctggc | cactataagg | ccagccagac | 900 |
| tgcgacacag | tccateccct | cgaccactct | tttggcgctt | cattgtcgac | gtgtggtgag | 960 |
| ctctcactgg | ggcgctccctc | taagatctgt | ccactcctgg | tntaggggtt | aagcctttcg | 1020 |
| tgccttga | gatttncacc | tgtagggtggg | gcaagctaaa | agagangcc | | 1069 |

<210> 112

<211> 1058

<212> DNA

<213> Rattus norvegicus

<400> 112

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| caggtttttg | gttttccaag | gncccccccc | tgggggttac | aaaatggcgn | nnantcgngg | 60 |
| tgggaaccng | acgggtttta | gntaccgggt | ttcccntgg | agtccttggg | ggttcctntc | 120 |

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|------|
| cgaccttcgg | ttaccggtac | ctgcccncctt | tttccttttg | gaggggtgggn | tttttcatag | 180 |
| ctcagctgta | gtatctcagt | tcgttttagtc | nttngnccaa | gttggtttnt | gcaggacccc | 240 |
| cngtnagccg | gaccggtgcc | ccttatccgg | taatattgtc | ttgagtccaa | ccngtagaca | 300 |
| ngattattgc | cattggcagc | agcaatgtaa | caggttngca | gagcgaggta | tgtaggcgg | 360 |
| gtacnngggt | cttgaagtgg | tgccttaant | tacggntaca | ntngagggac | agtatttggt | 420 |
| atttgcgctn | ttgttgaagc | cagttacttt | nggaaaggag | ttgntagtct | ttnatccggc | 480 |
| aaacaancca | cngttgntag | cgggtggtttt | tttgtttgca | agcagcagat | tacgcgcaga | 540 |
| aaaaaagnat | ctcaggaaga | tccttttnatc | ttttctttcg | gggtctgacg | ctcatgttgt | 600 |
| gtggaattgt | gagcggataa | caatttcaca | cagaatttct | cttagaaaaa | tctgtccttc | 660 |
| agaaacttaa | attctgctgt | tccataacag | aagtcagcaa | gtgactcacc | ctccagatac | 720 |
| aggtatatta | cctccactcc | catccacaga | gacttaattc | tagtcagctt | catgatagt | 780 |
| agccttcac | cgtaaggagc | tgtatgggtat | gggaagggga | tacagacagg | gccaggggtg | 840 |
| tttttaaacg | gtaaccacag | gaccacatcc | attaaaaaca | ctggactgtt | tgtgagagt | 900 |
| tatattcctg | agcattgcct | atcccttaag | gtactacaaa | atttgggagt | gaggctcagc | 960 |
| aaactatttt | aacatgcctc | tcccacccaa | ctactcaaga | ttccccgtgc | acagttgaaa | 1020 |
| gntttncac | ctgnaggtgg | ggccaagcta | aaagagat | | | 1058 |

<210> 113

<211> 1046

<212> DNA

<213> Rattus norvegicus

<400> 113

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| cannaaaann | agttccaagg | aantggntgc | ccngaacaag | gacccaaaac | ntgnnnnana | 60 |
| angggggann | naanggcana | annnatggac | gagagtnaan | ancgcnangn | agaagantna | 120 |
| aaantcncca | nntggngccc | caaatnnenc | aattgancca | aancnntaga | ggnncccaag | 180 |
| acnaatgggc | actntganna | gancnggcca | gaagncaagn | gggggannnt | catagnnaca | 240 |
| tggananaaat | aaagntntgt | aaacccggan | tggcaatnga | aaccagcaaa | gacccatgaa | 300 |
| cgtgagngan | accagttgga | aacaatgaan | nnantgggtg | antnacagga | atgngggtan | 360 |
| gacgcnnagt | gancccaaan | aggcaacncc | attgaaagcc | ttcnccncca | tggaaatact | 420 |
| gtanntaaaa | caaacaaaca | aatnacaaaa | anaaaaaacc | caaagcttaa | gtggagtgcc | 480 |
| cnttccagnt | agccaccnnn | taagaactgt | aaatcgcacc | ntcccangcc | agatgcagg | 540 |
| aaggnaggat | tacaggnatn | tcggagggct | caggagggaa | tgggtcncaa | nntgagctga | 600 |
| ggcncnggtg | anttncgcta | cntcgnaaaa | aangagaagt | catgtgggac | gnatgtgtgt | 660 |
| aagcacagct | cntgtgangt | caagtcagca | acantatgcc | atactctgaa | gacagaggnc | 720 |
| cataatagna | ttgttacang | atncnngact | tttanaaaan | caaaatccta | aatcctattc | 780 |
| tccgtgggcc | cacacgaaac | anccatccat | caggatcatc | tcacagttgc | ctctgannt | 840 |
| tngtnttctn | ggaancntan | gntntcggag | ttggggaccg | aactcagggc | cgtgtgcttg | 900 |
| ctaggcaagc | gctctaccag | tgagctaaat | ccncaacccc | cacagntgcc | tcntntgatt | 960 |
| gnaggtntcn | tatcccnttc | ttttgtggca | agntcttctg | ggccccntga | aagtgaannc | 1020 |
| acntaagngg | ncgccagcta | agnaga | | | | 1046 |

<210> 114

<211> 1083

<212> DNA

<213> Rattus norvegicus

<400> 114

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| ctcccnggcc | ccaaaaattn | ttttanaaan | tttttttttc | gggnaaattt | tnaaaatttt | 60 |
| aagngggggg | aannacaaag | nnntntntgg | gntggnccaa | tggggaaaat | taagnnnann | 120 |
| ttgnntgggg | tgaattccc | ccntngnttg | gaggaggnaa | ttatnttgta | gaaatttatg | 180 |
| gttgtggggg | atnttggtta | atcttttgaa | tgtgttcccc | ttntgtttcc | cttttgggac | 240 |
| atggncttta | ataggtggnc | aaattttacc | ntnttggaat | cagcctattt | atcaagatta | 300 |
| gccagtggtg | ctcaaccttg | tggaaacccct | ttaacaggat | ttgcttggn | catntgaaac | 360 |
| acagtattta | tgtcaggatt | cataacagta | gcaaaantat | agttatgang | cagcaagaaa | 420 |
| atcactttat | ggttggagcg | tcaccacaac | atgaggaatg | tattaatccg | cagtattaga | 480 |
| gaggtcgaga | accactatct | tagaggatgc | ggtagactga | ttgcttccct | tctcgcttgg | 540 |
| agttgacctt | gccactagag | ggcaacagca | tcagtattgt | tcccagtcct | cctcacactg | 600 |
| attcgaactt | taaggacact | gatctctggc | tggtagaggg | ttcagcacac | ataccagagt | 660 |

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|------|
| tacgagtcac | gtgccagaag | ggcaaactga | acacggaatt | agaggggaact | cgatgtctcc | 720 |
| ggcttgcact | ggtttctctt | gcactagaat | ccttcacnt | gctcccagtc | cgggacgtcc | 780 |
| aggcaacaag | ggcgtggaaa | gtgagggggc | tgggaggtgt | gtttgccttg | cctcaggcgc | 840 |
| tgggtggggg | tggggcgtgc | cagcactccc | tgggcggggc | tcaccgatgc | tggccactat | 900 |
| aaggccagcc | agactgcgac | acagtccatc | ccctcgacca | ctcttttggc | gcttcattgt | 960 |
| cgacgtgtgg | tgagctctca | ctggggcgtc | cctctaagat | ctgtccactc | ctggtttagg | 1020 |
| ggttaagcct | ttngtgcccc | tgaaagtttn | ncacctgtag | gtggggcaag | ctanagagat | 1080 |
| ntt | | | | | | 1083 |

<210> 115

<211> 913

<212> DNA

<213> Rattus norvegicus

<400> 115

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| ggggaaaaaa | atntgggncc | ctttnaaaga | aattctggaa | anccgccggt | ggggnatttt | 60 |
| taanataggt | ggggncnaa | aancttgatt | ttcccttttc | cctttgantg | nntaaagtgt | 120 |
| cnaanttccc | tttgacgcc | ntttacaaga | ttagccngtg | tgtaaccttt | gggcccttta | 180 |
| acaggattnc | ttggccntnt | gaaacacgta | tttatgtcag | gnttntaccg | tngcaaantt | 240 |
| ngttttgagc | agcaacgaaa | tcactttatg | gttggaggtc | accacaactt | gaggatgtat | 300 |
| taatccgcag | tattagagag | tcgagaacca | ntatcttaga | ggatcggtag | actgatgttt | 360 |
| cccntttngc | ttggagttgn | cttnccacta | gaggcaacag | catcagtatt | gttccccagt | 420 |
| ccccctcaca | ttgattcgaa | ctttaaggac | actgatctct | ggcttggtag | agggttcagc | 480 |
| acacatacca | gagttacgag | tcacgtgcca | gaaggcaaac | tgaacacgga | attagaggga | 540 |
| actcgatgtc | tccggcttgc | actggtcttn | tcttgacta | gaatcnttca | tcntgctccc | 600 |
| agtccgggac | gtccaggcaa | caagggcggtg | gaaagtgagg | gggctgggag | gtgtgtttgc | 660 |
| cttgccctcag | gcgctgggtg | gggttggggc | gtgccagcac | tccctggggc | ggcctcaccg | 720 |
| atgctggcca | ctataaggcc | agccagactg | cgacacagtc | catccctcgc | ccactctttt | 780 |
| ggcgcttcat | tgtcgacgtg | tggtgagctc | tcactggggc | gtccctctaa | gatctgtcca | 840 |
| ctcctggtct | agggnttaag | cctttcctgc | cctgaaagac | cntacntgta | ggttngncaa | 900 |
| gctaaatgag | atc | | | | | 913 |

<210> 116

<211> 1123

<212> DNA

<213> Rattus norvegicus

<400> 116

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|------|
| acgcnatntt | ggtggaattt | ggggggtaaa | aattttnaac | gaattaggna | ncttagggna | 60 |
| cnaaatccga | aatggggaat | ngggntaaat | ttcgaacctt | ttnggaggnn | ntaaatntaa | 120 |
| aaatgaggnt | aattggnttn | gaaangenta | tcaggcatte | caaattntta | aatttccctt | 180 |
| ggccagagat | tggggaaaat | tttncccga | ntccagnttt | aggttnnttg | gaaaaacggn | 240 |
| gccccaggga | ttgttgcacc | nttcccaatn | aaggnggttt | tccntccaan | gcctttnggg | 300 |
| gnaaaccag | ggggggnttn | aggggcccga | ttcaggaaaa | ggggaccgga | ntcgggtccc | 360 |
| ggaaggnttc | ccgnggggga | atcaaccggg | ttcccntccg | gaggccgggg | gggaccttta | 420 |
| ggtttccctt | tgcaggggta | anatccctt | tttcaaccgg | gggggtttgc | ggggnacgcc | 480 |
| cctttgccct | ttcccttccc | ttgccnggcc | cgttttgccc | aattnggccg | gtcctaactt | 540 |
| gttggcgcaa | gggacttttg | gcagccccgg | ccggtttggc | ggttggactc | caagggggta | 600 |
| acagggccaa | accnttttgt | tgaaanaagt | taacttgccg | ccccagtcn | gcgtcagtgg | 660 |
| gnangtgacc | ccgcntttag | gagtttgccc | cngccnttag | gccttgcccc | cagaggtcgc | 720 |
| cccacntact | agagtgtcgc | ttggcgcgat | gacgtangan | gacgcaggcg | cagtgagtag | 780 |
| gcgacgttgg | gacggccctt | ggttgtgtcg | ggggcggaac | tntgntggct | ttgagcgcc | 840 |
| tcnaaacagt | aggttgcttg | gggctctgcg | gcgtcgga | taaggcgggg | aggagcaaga | 900 |
| aaacagggat | cctccagtcg | tgtggaccga | cccaggtccc | gcaccctttt | taaggcctgt | 960 |
| gttgcggate | cgcgcggcca | tcacgcattg | catcacggtt | ttactgtgtg | ggaaacgtag | 1020 |
| ccgtccatac | ctgggtgtag | tcagggacct | ttatggtggc | tgtcacgcag | gcgatttgnc | 1080 |
| aattgaaaga | ctttnnccctg | taggnanggg | nagctaaaaa | gat | | 1123 |

<210> 117

<211> 1116

<212> DNA

<213> Rattus norvegicus

<400> 117

| | | | | | | | | | | | | | | | | | | | | | | | |
|------|-------|------|------|------|--------|------|------|-------|-------|------|-------|-------|-------|-------|------|--------|-------|------|-----|------|-----|-------|-----|
| aat | ttttt | taa | ccn | cccc | cnt | ttt | naag | ntt | gaant | tgc | ctagg | gag | ccct | at | tttt | 60 | | | | | | | |
| ccc | cct | t | gna | ant | ttt | cccc | gtaa | ataag | naat | gnt | gna | ntt | gtat | ttta | nctt | gcccc | 120 | | | | | | |
| aaaa | aac | nn | gtt | ctt | naat | gca | agg | tant | tgg | ggg | ttat | tatt | ntg | aaa | ggca | actaat | 180 | | | | | | |
| tnt | taat | ggt | ggat | t | naaca | at | ttt | gaagn | ggat | t | aaana | aaana | aatna | ttg | nttt | tcca | 240 | | | | | | |
| ttg | gng | ggt | gt | ggg | ntta | aaa | ccct | tgg | tnn | ccag | ggt | tcc | ant | ggg | ttca | ggcc | cttt | 300 | | | | | |
| gng | gnt | ccc | cnt | t | cccc | gg | gaat | ngg | ntt | gaac | cg | gaa | ttga | acatt | t | gcac | ccctt | 360 | | | | | |
| tcc | gng | ggc | ctt | a | aggatt | gcag | cncc | ag | ttgc | ggg | gaa | ggg | gta | attc | ctt | gccc | ncc | 420 | | | | | |
| gtg | ga | aggg | g | ttt | cag | nttc | ctt | cccc | aacc | cccc | ccg | gc | ggg | agt | ccg | gng | ggg | cggt | 480 | | | | |
| ttnt | ttc | cacc | tta | agg | gcg | g | cg | tgg | ant | aa | atta | agcg | ccg | ggg | nggg | ntcc | caag | cc | 540 | | | | |
| ntcc | g | cccc | g | g | ctt | t | ggg | cg | ccg | ggg | g | cna | acg | g | cccc | ng | ggc | ttt | ggg | 600 | | | |
| cggt | nt | ccn | ncc | g | cca | ac | cgg | gn | ccc | gt | ggt | t | gnt | ggg | ttag | gcc | ag | gcac | cn | ggag | 660 | | |
| ttnc | cg | ggg | g | ca | ac | caat | t | ccag | gact | ang | ctnt | gca | agg | agt | ttg | gat | agg | act | c | | 720 | | |
| ntac | aat | ggt | cc | ct | cc | ctc | g | ttt | g | cccc | gag | g | cc | ctt | g | gg | ag | ct | ggt | tnat | ccc | 780 | |
| act | cag | t | gag | t | cact | t | cat | ga | ag | cac | ggt | tgg | ct | g | ctt | gga | at | g | ct | gg | gca | acccc | 840 |
| aac | acag | t | gc | tgt | act | ag | ta | cac | ac | ac | ac | ac | cac | ac | ac | g | ttac | ac | at | gc | | 900 | |
| tgac | ac | aa | ac | atg | aaa | at | gc | agt | ca | ac | ggc | agg | cag | agat | ggat | ggat | gc | ac | att | g | ct | gt | 960 |
| gga | at | ggt | ac | act | tt | gc | acc | tcac | act | ctt | ccag | ag | gg | gac | agt | ccata | ca | ac | act | cag | ct | 1020 | |
| tcg | ctt | cccc | ctat | agg | ctt | cac | at | gac | ca | gct | ctt | cag | g | tcg | gaa | agg | acng | tact | ga | | | 1080 | |
| aag | act | tnac | ctg | tag | gnng | gnc | ag | ctaaa | aag | atc | | | | | | | | | | | | 1116 | |

<210> 118

<211> 900

<212> DNA

<213> Rattus norvegicus

<400> 118

| | | | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|-----|--------|------|-------|-------|------|------|--------|--------|-------|--------|-------|--------|-------|------|-----|------|-----|
| ggg | ngt | tngc | tct | cag | atgc | nag | ntac | nnn | tcag | ggg | gng | tct | cac | gaga | aaan | ctnat | g | 60 | | | |
| tgt | ggg | gnt | ant | ntg | tatc | ccct | nnn | ctc | nct | cag | aganc | ccnn | ntct | cg | anatt | ttt | ggn | 120 | | | |
| gac | ngg | ggc | cgg | gg | ccc | ag | anact | cncca | cccc | at | atgg | ngac | cc | nta | taag | t | gcnn | 180 | | | |
| ccag | g | nn | t | ttt | gg | naa | aat | atanc | nn | anag | nggt | gt | ntnt | nanatc | tcg | ggg | ggtg | 240 | | | |
| acag | ac | ccnn | at | ttt | ttt | ttt | ataa | ag | acc | ggg | g | catntt | cteng | cccc | tct | cct | engc | 300 | | | |
| tac | ang | nnac | ccac | ac | acag | tgt | gt | ctc | ct | cag | cccc | tgg | cac | actt | tnt | ntng | ant | 360 | | | |
| cng | ngg | ggat | atg | ag | attcn | cnag | act | ggg | ncc | gn | ntan | tann | cn | cccc | cnt | gt | ctc | ct | 420 | | |
| ctc | atag | tgt | ngt | gt | cccc | cct | c | accnn | tntt | gng | gtn | ccct | ac | acc | acac | aatnta | | 480 | | | |
| gact | ct | nccc | ncc | nt | engct | ntg | ngac | nca | can | ct | gnaaa | tccc | gn | nn | cn | caaaa | agggc | 540 | | | |
| tgt | n | ctc | t | ctc | g | tct | ntta | cng | ggng | gt | cncc | cnc | nnn | ngac | tct | naa | angt | ccct | cn | caaa | 600 |
| agg | gac | nctt | ttct | ata | acac | nct | tant | ttt | n | ctc | ctt | ttgt | ntng | caaaaa | ann | anc | ctgt | 660 | | | |
| gtt | n | cccc | cc | ttt | atnat | ntt | nt | ttt | ttt | n | ttcccc | aaa | taan | ctt | ttta | ggn | ntnan | ct | 720 | | |
| tcc | ggg | ggc | ca | ac | cccaaa | at | cc | antnt | t | ctt | ttnt | nt | tgg | ttg | gggt | gtc | aaa | attc | 780 | | |
| ctn | cc | ctaa | ant | ttt | gaac | ccc | ctt | ta | at | cccc | cccc | ggnt | na | aggc | ccn | act | tccc | 840 | | | |
| tng | gnt | nttt | tcn | ct | aaaaa | at | ttt | ttg | tn | gcc | ct | ccctg | ggaa | atcccc | ggt | att | ctc | 900 | | | |

<210> 119

<211> 498

<212> DNA

<213> Rattus norvegicus

<400> 119

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|--------|------|------|-------|-----|------|-------|------|-----|------|--------|------|------|------|-------|------|------|------|-----|-----|
| atg | ttg | tgtg | gaat | tgtg | ag | cgg | ata | acaa | ttt | cac | acag | aatt | caga | ag | gat | ctc | agaa | 60 | | | |
| att | gaa | agca | tgt | g | caa | aga | t | aa | gatt | tg | ggg | tag | tagt | agt | gg | tcaaa | agg | gaca | agg | 120 | |
| ta | ata | atggt | aat | at | gctt | t | tgt | gtat | gtg | ttc | ttt | tttaga | gtt | at | gtt | aa | aat | ctag | aga | 180 | |
| ag | caa | agtcg | att | ct | catag | at | gctt | tttag | t | ctt | tg | gacc | ctg | act | agag | acag | ttt | taca | | 240 | |
| cc | tag | acaa | gag | ag | agaat | ggg | gt | t | gag | t | aaa | acag | tcc | tccc | ga | actc | tcc | acag | atg | 300 | |
| ctt | tg | gcaaa | aga | agg | aaat | gag | ct | t | aaac | ttt | tt | tg | gagc | tct | c | ctg | gga | acag | aagg | agg | 360 |
| gt | ggg | agacg | tct | tg | cctcc | ttg | ct | gctcc | tatt | gg | agaa | gtg | ctt | at | tt | ctg | gtt | ct | gg | | 420 |
| gtt | ttt | tttagg | tag | gnt | gtct | ggg | t | ccctt | gnt | gaa | ag | acct | t | acct | g | tag | g | ttt | ggn | | 480 |

| | | | | | | |
|---|--|--|--|--|--|-----|
| cgntngaaaa gatcntgg | | | | | | 498 |
| <210> 120 | | | | | | |
| <211> 380 | | | | | | |
| <212> DNA | | | | | | |
| <213> Rattus norvegicus | | | | | | |
| <400> 120 | | | | | | |
| aatgggnggt ttccgaaaan aacgcnaaaa aaaaagttag ggaatttggg gaattaagaa | | | | | | 60 |
| nccgggaacn tgnaaacatt gaccaanctt gttttaatta ccggtttggg gnaaaagggg | | | | | | 120 |
| caaccccaaa ggggaaggga anggaangga aaatnaattt ccttttnaaa aaggagnaaa | | | | | | 180 |
| tncgggtang gaaaattccg gtgnggggtt ttcaaagggt cccccccggn ggnntaaaaa | | | | | | 240 |
| attgaagttt antcnngggg gggaacccaa nagaatataa anaaaccggg gtttcccccn | | | | | | 300 |
| gggagttcct tgggggtttt ccggttcgac ccgncgntta ccggaaacct ntencctttt | | | | | | 360 |
| tcccttgggg nagggggggg | | | | | | 380 |
| <210> 121 | | | | | | |
| <211> 998 | | | | | | |
| <212> DNA | | | | | | |
| <213> Rattus norvegicus | | | | | | |
| <400> 121 | | | | | | |
| acatgtacac aactgggtcc cagccaagtc aggttccagc tgccagcaga ggcctggagc | | | | | | 60 |
| tagcttcgcg tgcactacca ccctgcccaa cctggcactg tgccattga cttcgggggg | | | | | | 120 |
| ccgggggag gaggtacca cctccccacc ctctcttcc ctctctcag gagcttatct | | | | | | 180 |
| atcggtgagc agcaagtagg aaaaggtaag ctgagaaaga gcacttggct ggctacagga | | | | | | 240 |
| cctcagcctg aggtgtgaaa caggagactg ggcactgggg aaacagcagc actggctggg | | | | | | 300 |
| ccaaagggga gggaggaagg caatgaatgg gcaagcctgt gccttacaga aacagactcc | | | | | | 360 |
| cttgggctgg gtgctggaat cctaaccctt cagtgatggg ggaactctgc tccagtgagc | | | | | | 420 |
| tgaagtatac atgtggggaa ttggggggtg gggtaggggg aaggcaatcc aaaggctcact | | | | | | 480 |
| cccctgacct agttggacca cagttaatta aggtcccaa gccctgctga ctcttnacgt | | | | | | 540 |
| ctggtttctg gaaagaaggg agttaatcag caaacaattt aagaaaggta taactgtcta | | | | | | 600 |
| cccctgcaga ggatcatggg ttncctctct anncttctga gccgtggatc tcagccaaaa | | | | | | 660 |
| acaaaaacca aaacaaagaa acaaacgcct atttaaaagg ggggttgaggt tgggcagggg | | | | | | 720 |
| tgaggtngtt agatcatctg agagctccag gacacgcana tagttgaaga ggaaaccaag | | | | | | 780 |
| atccaaatgt cttctgacat cacacgggat gcagcagcac accaacadat actttancct | | | | | | 840 |
| cnccagagag gaaaacaacc gcctagttaa taagcagagt tgggctgttg gcaaaccgtc | | | | | | 900 |
| attccagatc tgaggnaagt tggatgggtt ggggtgtctat gttnacntaa gacctgtttt | | | | | | 960 |
| acaagctnnt atgggcaagg gctttgggtt nagnaagg | | | | | | 998 |
| <210> 122 | | | | | | |
| <211> 970 | | | | | | |
| <212> DNA | | | | | | |
| <213> Rattus norvegicus | | | | | | |
| <400> 122 | | | | | | |
| ccggtcnccg aagganantt aaccttcccg gtttttaann aanaccgna tnttcgggat | | | | | | 60 |
| tgggttttta acggcttttt ttanaaggcc nagataccct ttnatggcc tttattccct | | | | | | 120 |
| tccgttttnt tccccccctt caatttgga gtttggtttg ccgaanttta agttnttgct | | | | | | 180 |
| ntcctncgtt ntttttttcc nttntttttt cccaaaagta acaanccggg attgggttcc | | | | | | 240 |
| aaggntnttn ttgaaccctg aatngcggnt ttccgggtta ccnagggttt gttcctnngc | | | | | | 300 |
| cgnttcctcc aatttttgga ntttcccagn tnggggtccn ttntcttggt nacngttcca | | | | | | 360 |
| aacntaattg acanttaatt tttcctgtgt aanttgctcc cgganattnt gggntcttgg | | | | | | 420 |
| ngcagggcct tttttcattg gaagcaacct cntaaatttt taccaggctt gattgttttag | | | | | | 480 |
| gaagtaatcc ttgcttngaa nccccacttn ttntttccaa ggntggaaac caggattttg | | | | | | 540 |
| gaactgcaga ggcttcaggg tctgggaagc ggagcangca aagantggag tgcactgtcc | | | | | | 600 |
| ttttgcaata tgggggtttg ttgcttgctg gctcntntcn tgctntntca gatgggtgact | | | | | | 660 |
| gaggctactt cagcaggact aggaataatc atgtccaggt ggntgccctt ccgagcagaa | | | | | | 720 |
| agggacagac gtggggcgat gaagtgtgcta tcgttttttt ttttttctgc acagactgca | | | | | | 780 |
| aagtgtgcag agggaggagg gctgtgcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa | | | | | | 840 |
| cgaggacgca gaagttagac tgctgaccca tttgggtgcat gtgtgccccat ggaggggagg | | | | | | 900 |

gaccttctca aaaggggttca cgcagcaagc attgaaagnt tccacntgta gngtcgcaag 960
caactgagat 970

<210> 123

<211> 884

<212> DNA

<213> Rattus norvegicus

<400> 123

ngggcccccc tcgaggtcga cggatcgcg aagcttgagg gacccacgtg atggaaaggg 60
agaagcaatt tagtgctctn tgtcctctga cctccacaag tgctgtggca tggggacaca 120
ggactgtaca cacacacaca cacacacaca cacacacaca cacacacgca cgcacacaca 180
cccctcaagt aaccgtggaa taaagggtccg accagaaacc acgctgggaa gggagatgct 240
ggagcacatc aggggtgggtgc taagcagcag atcggcctgt aactggcagc agaggggtgt 300
ggctctttca gaaccaggag ggcacgccc ctccagccag actctccagc tttcttcccc 360
tccttgccctc ctgttttccct tctgcctacc ttcctttggc ctcaaaccat aatgtgcaac 420
acattcaaac tgtagtaagt gttttaattt tctactaaac aataaaacct ttagattttc 480
actgggccag tgctggtaac agcagactgg gtggagtatc acagaggggtg tggagcaagc 540
tggctaccca gggctgggca cactcaacac tctggcattc ngtggaagtt ctgggcagta 600
aaaacagaag canacgtcac gcacagggtc catagtgtna ggcaccttaa tctancnaga 660
anacctgggtg ttnagtntgt nnacaaaann gantgntgna cttggacagn ggtgttttnn 720
tcccagggtc tccaggantt aggggtatac caggccann acattgggna aacgtgtgtg 780
tnaannnttt cntntnaaac cnccnnggtt gacnactngn nntccntttt aanggnccca 840
gttcccccttg gggggttngn tntggaaaaa ggctttccgg tttc 884

<210> 124

<211> 855

<212> DNA

<213> Rattus norvegicus

<400> 124

ccccttccgg ggggtttana anggaatnaa tgggtntntn ccaggggggg aaacccttna 60
ccgcgngcct ttcggaattt tngtccaccg naaaaaattt nccatgngca ccatgnaagn 120
tnacgagggg attnggggtt anagtttttg agtgggcca nangaacatg gaggaatatt 180
tgttttggtt tngnaaccat accttggaag gattgtattt ttatccgcca acaaccacng 240
tggtaggggtg tttttttggt tgcagcagca gataagggca gaaaaaagat ntcagagatc 300
ctttgatntt tnttcgggggt ngacgttcat gttgngngga ttgggagcgg anaacaattt 360
cacacagcaa ggagaggagc caatatagag gggaaaaaaa aagaagggga aagcagttag 420
tttaaaaagt tgagagaaca aagtatgttt tgnttgatg ggcaaccaa gaagcntgcc 480
aggaatgggtc ggtaaaaggt gtaagagtca tgaaagtntt ctgtccaacc gttaccggaa 540
acatgcaagg aatttcttag actggccagg attggattgt gggaaaggtn tnttcaagcn 600
tccccttggc ttttatggca agaaaatagt gcggactata gagagcgtcg ttctcaaagc 660
tttccccaat agcagaaaag cattgtccta aattccctaa aaggcaccgt gaaataaata 720
ttacgggaca cgatggcaca agaaggagct ttcaactctg ccaccagaac agttatactt 780
catagtaacc atgttgccct gttcaatgac aaggcacgct ctccagcaga aagggaaaag 840
gagctgagtt cgcac 855

<210> 125

<211> 1059

<212> DNA

<213> Rattus norvegicus

<400> 125

caatttttaa aaaaaagaat ttgggtttta tccaaaantt gnnncaaaaa ttggttgacc 60
ntttnaacc caaaaccatg nnttgnctt tcccctnacc ngtnatagt nttgnantgt 120
aaccaacaa tcaacggnta tttgttcagg gantnttgg taccaggcnn ttggttttga 180
naanacggta ggtccgggaa gcnttgacgg taagccngg gganaagggc caacggngat 240
cccaaattag gagcttgacg cattgttttc ntttgcntgg aatgncattc ttctcttctc 300
cntttatcta gaaaacgntt actcatgctt caaanccacn gttgacttcc ccagcattgn 360
ttcnentagc tccttctttg aaacaactga ttgggaaatc aggaggatan gaaaagcttt 420
aacaagagct ttcagggggt ttcggagaga actcattctt gtaggacgca ggccatgcaa 480

| | | | | | | |
|-------------|------------|------------|------------|-------------|-------------|------|
| gcatcaggct | ctgccttctg | gaccccagta | tacagacata | tgcacaactg | cagtgggttca | 540 |
| tacttgtaat | cccagtgtta | ggaagactta | gacttggagc | ttgctgggtca | gactggtaag | 600 |
| cccagttcag | tgagaccctg | acttaaaaat | gaagttggaa | agaaatttgg | aaagataatc | 660 |
| tgggtattcat | ctctgggctc | tatttgcaca | ggcacacaca | caaataacc | aatataacat | 720 |
| acacagaaag | agaaggggag | ggaggaagag | agggagggcg | gtagagaact | tgtgaatgtc | 780 |
| ttttgatagg | ttttttttta | agttattgga | ttaaaccatc | agcagtgtca | cattgggttaa | 840 |
| gttaaaaata | ataaaatgaa | gcaacttatc | tttgcctgaa | ttcattactc | attatgagag | 900 |
| tttgataaaa | aaaaagagga | gtctcccaca | gttttctgt | ctcatctttt | actccagggg | 960 |
| acggtcacac | tattcagtaa | gatacctagg | ctatctggct | cactggactn | ggcgtgaaag | 1020 |
| actnnacctg | taggtttgng | cgctgaaaag | atcttnaac | | | 1059 |

<210> 126

<211> 1042

<212> DNA

<213> Rattus norvegicus

<400> 126

| | | | | | | |
|-------------|------------|-------------|------------|-------------|-------------|------|
| aaacncttc | tgaancccca | aatcctnaga | atnttttnaa | aatccccng | ggngnagcc | 60 |
| aaatttaacn | nttttttcca | agagcatgaa | cagngngatt | cttggganag | ctttngggtt | 120 |
| ccctttttnt | naatcnncat | ngagggttct | aantgaacct | naaggnnatt | taacttttna | 180 |
| tggaaacaaac | ccgttggtgt | gtccctctct | tggaganttg | agttggaact | taaaaaaaaac | 240 |
| ctttccnaaa | aattgtgtaa | tctgantcca | aaccctaatg | aggacaaatc | cagtgtagga | 300 |
| ggnatttagg | caaattaaac | tgacttgggtc | aaatttctga | aatgatgtc | ttgatttcag | 360 |
| gaaggatccc | cagtgcntcg | gggacntgaa | agggagatgt | aacccttgag | ctcatggnta | 420 |
| ggaagggaaa | tcttagagac | agcttggtaa | aatctgagtg | aggttgagag | gttgaggagac | 480 |
| cacattgtgt | atntgctcat | ccctgtgagg | gagagacttg | tactctgctc | ttgagaaggc | 540 |
| agaactgtta | ggcagacact | tagagaatat | atgtcatggc | aaangacatc | cacccaacaa | 600 |
| gtcttcagta | acaaagcact | aaacagaaag | gggttgaaga | gacttgggtca | gtggcatgag | 660 |
| agnttttatt | gctcttacag | aggactcggc | atgcntagca | gctcacaaca | gcctgtgact | 720 |
| tcaacactat | gcctcttggc | ctcaggagac | acctgtgtac | tcccaccng | acacatatat | 780 |
| ttaaaaataa | aagaaatctt | ttaaacattg | agcaaagtga | atcaggtact | aacattgaat | 840 |
| atatctgggg | ccaggaatta | ttctgggtta | ttgccttttt | cggaagccta | atatcacaca | 900 |
| tagagaaata | ggcagcacag | gcctaacagc | ccatantgtg | tgctattcta | tcaatagtgc | 960 |
| caagtattga | catggactat | tnttaaggcc | aaangagagg | tcnccagaaa | gttatacatg | 1020 |
| taggttggcg | cgctgaaagg | at | | | | 1042 |

<210> 127

<211> 960

<212> DNA

<213> Rattus norvegicus

<400> 127

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| ggcccnnaat | naaanggnng | gttgaacccc | ntnttngaca | ngntgcccac | aantacnggn | 60 |
| aaccattnc | naaatttnna | agtgtgggat | naaggcntgn | cccatnatcc | tccctnttga | 120 |
| ntgcncceaa | agtaaagncc | aanttgaggg | ngganntttn | ttgaaacgta | attaanattt | 180 |
| ttccgataag | gaaacggagg | cccgggaant | gatccntttg | gagttaccag | gtcagtttag | 240 |
| cattaggntg | acagttgnga | ccaattmatc | cttgcccgtt | ggttggaagg | agaggggant | 300 |
| aagggttaag | ctcntgagtc | cettgaaggc | cttggaatcg | ggaattccct | taaagccaac | 360 |
| ccctttgccg | ttgaactgca | ccaaccagat | gtctnccagt | ttgcttgaag | agacgggatt | 420 |
| cantgntgtg | gagaggggca | ggagggntgg | gaggtgacnt | nacaggggtc | agggattctt | 480 |
| ttagaaggg | ccaggctcat | ggcttcccc | ccccccagcc | aggtcagaca | ctaaagtgtc | 540 |
| ttaagcccct | ccatacctgc | cgctccccc | ccttggaatga | agccggccat | taggcaggga | 600 |
| ccgtctctgg | gagaggccaa | gccctctggc | tcacttgtgg | atttccttta | agcaagactt | 660 |
| cctctctgct | tccaggactc | ctgtcaaaca | agaggggtccc | tggcttagag | tttgggagct | 720 |
| gcaggcagaa | cagacattcc | ccgatgactc | acaagcctgg | aactctgtgg | gccagcagga | 780 |
| atggggatgg | ctttctggtc | agtcagggtc | aactgggaca | ctcactctga | gacagggagg | 840 |
| caaggagaaa | acaggtcaga | ggtagagaga | gctcagtcac | gggactcacg | gtgaggtccc | 900 |
| taagggtcgt | aggagagagga | tntaacattc | ggtttgggna | gctagaaaag | atctntaaaa | 960 |